

Utah Water Supply Outlook Report

January, 2007



Steel Creek Park SNOTEL, December 2006, north slope of the Uinta Mountains. Photo by Ray Wilson, NRCS, USDA.

Water Supply Outlook Reports and Federal - State - Private Cooperative Snow Surveys

For more water supply and resource management information, contact:

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How forecasts are made

Most of the annual streamflow in the western United States originates as snowfall that has accumulated in the mountains during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Measurements of snow water equivalent at selected manual snowcourses and automated SNOTEL sites, along with precipitation, antecedent streamflow, and indices of the El Niño / Southern Oscillation are used in computerized statistical and simulation models to prepare runoff forecasts. These forecasts are coordinated between hydrologists in the Natural Resources Conservation Service and the National Weather Service. Unless otherwise specified, all forecasts are for flows that would occur naturally without any upstream influences.

Forecasts of any kind, of course, are not perfect. Streamflow forecast uncertainty arises from three primary sources: (1) uncertain knowledge of future weather conditions, (2) uncertainty in the forecasting procedure, and (3) errors in the data. The forecast, therefore, must be interpreted not as a single value but rather as a range of values with specific probabilities of occurrence. The middle of the range is expressed by the 50% exceedance probability forecast, for which there is a 50% chance that the actual flow will be above, and a 50% chance that the actual flow will be below, this value. To describe the expected range around this 50% value, four other forecasts are provided, two smaller values (90% and 70% exceedance probability) and two larger values (30%, and 10% exceedance probability). For example, there is a 90% chance that the actual flow will be more than the 90% exceedance probability forecast. The others can be interpreted similarly.

The wider the spread among these values, the more uncertain the forecast. As the season progresses, forecasts become more accurate, primarily because a greater portion of the future weather conditions become known; this is reflected by a narrowing of the range around the 50% exceedance probability forecast. Users should take this uncertainty into consideration when making operational decisions by selecting forecasts corresponding to the level of risk they are willing to assume about the amount of water to be expected. If users anticipate receiving a lesser supply of water, or if they wish to increase their chances of having an adequate supply of water for their operations, they may want to base their decisions on the 90% or 70% exceedance probability forecasts, or something in between. On the other hand, if users are concerned about receiving too much water (for example, threat of flooding), they may want to base their decisions on the 30% or 10% exceedance probability forecasts, or something in between. Regardless of the forecast value users choose for operations, they should be prepared to deal with either more or less water. (Users should remember that even if the 90% exceedance probability forecast is used, there is still a 10% chance of receiving less than this amount.) By using the exceedance probability information, users can easily determine the chances of receiving more or less water.

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STATE OF UTAH GENERAL OUTLOOK Jan 1, 2007

SUMMARY

It is snowing outside as we begin the water supply outlook reports for 2007, visibility is less than a quarter mile and the large fluffy flakes are piling up ready for the shovel. This is a very welcome sight even with the prospect of some hard labor later as conditions have been relatively dry for snow accumulation this season. October got the ball rolling in style with precipitation ranging from 116% to 242% of average which brought soil moisture values across the state up substantially. November wasn't too bad with precipitation in the 90% range but mild temperatures seemed to slow significant snow accumulation even at higher elevations. December continued the slide with precipitation near 69% of average and snowpacks that are below average. After a great start, soil moisture values have been steady to slightly decreasing over the past few months but for the most part are still in excellent condition. The Bear and the Weber Rivers are in particularly good shape at 67% and 62% of saturation. The Provo, Uintahs, southeast Utah and the Sevier are all between 40% and 50% of saturation. Southwest Utah has the lowest soil moisture condition at 33% of saturation, much less than the remainder of the state. Snowpacks range from 69% over southeastern Utah to near 80% of average on the Bear, Weber, Sevier and southwest Utah. The Provo watershed has snowpacks near 73% of normal. This is about 71% of the snowpack of last year. Precipitation for December ranged from 60% on the Provo Basin to 118% over southwest Utah. This brings the seasonal precipitation, (Oct-Dec) to 103%. Reservoir storage ranges from 34% on the Bear to 89% of capacity on the Provo. Statewide reservoir storage is at 67% of capacity, down 6% from last year. The Bear River basin has relatively poor reservoir storage at 34% but is significantly improved from years past. In general, most areas of the state have excellent reservoir carryover. General water supply conditions range from below to near average. Streamflow forecasts range from 52% to 91% of average. Surface Water Supply Indices range from 23% on the Bear River, to 84% on the west side of the Uintah Basin.

SNOWPACK

January first snowpacks as measured by the NRCS SNOTEL system range from 69% in southeast Utah to 89% on the Uintahs. The Bear, Weber, Sevier and southwest Utah area all near 80% and the Provo is at 73% of average. To reach average conditions by April 1, we need 110% to 120% of average accumulation. The probability of getting this accumulation ranges between 25% and 42%. It is very early in the snow accumulation year and any outcome is possible.

PRECIPITATION

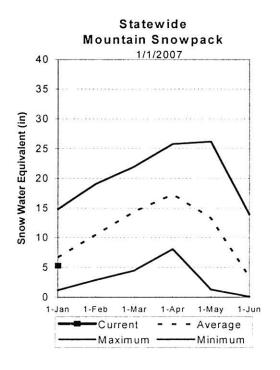
Mountain precipitation during December was much below normal at 69% of average statewide. Precipitation was lowest over northern Utah (60%-64%) and highest over southern areas (67%-118%). This brings the seasonal accumulation (Oct-Dec) to 103% of average statewide and ranges from 92% on the Bear to 123% over southeastern Utah.

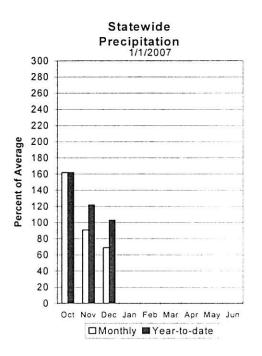
RESERVOIRS

Storage in 41 of Utah's key irrigation reservoirs is at 67% of capacity. This is an increase of 2% from last year. Reservoirs across the State have been making steady gains in storage. Bear Lake really is the last reservoir to remain in an extremely low condition due to the prolonged drought.

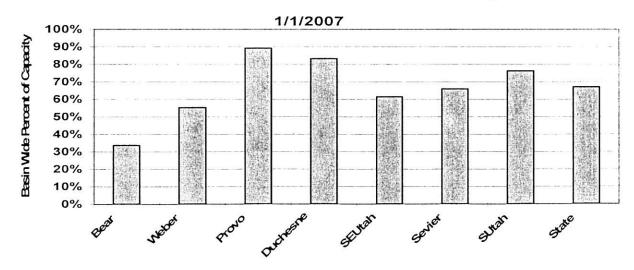
STREAMFLOW

Snowmelt streamflows are expected to have a wide range from much below average to near average across the state of Utah this year. Forecast streamflows range from 52% on the Beaver River to 91% of average for South Willow Creek nr Grantsville and Big Brush Creek abv Red Fleet. Most flows are forecast to be in the 60% to 85% range.





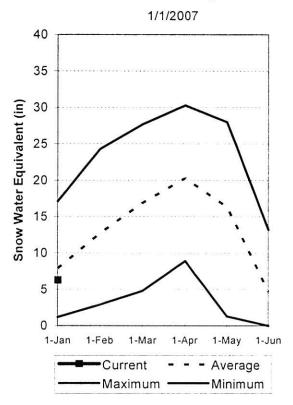
Statewide Basin Reservoir Storage



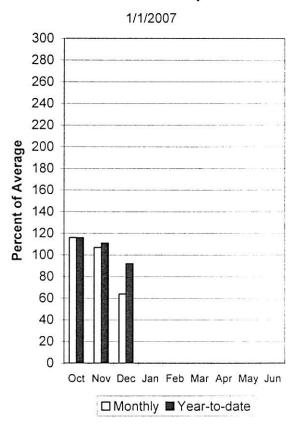
Bear River Basin January 1, 2007

Snowpacks on the Bear River Basin are below average at 80% of normal, about 57% of last year. Specific sites range from 58% to 100% of normal. December precipitation was much below average at 64%, which brings the seasonal accumulation (Oct-December) to 92% of average. Soil moisture levels in runoff producing areas are at 67% of saturation in the upper 2 feet of soil compared to 55% last year. This is due mainly to above average precipitation in October. Forecast streamflows range from average to above average (65%-88%) volumes this spring. Reservoir storage is low at 34% of capacity, 12% more than last year. The Surface Water Supply Index is at 23% for the Bear River, or 77% of years have had more total water available. Water supply conditions are much below normal due to low reservoir storage but have been improving over the last three years.

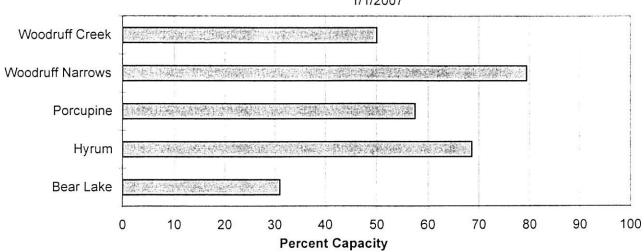
Bear River Snowpack



Bear River Precipitation



Reservoir Storage 1/1/2007



BEAR RIVER BASIN Streamflow Forecasts - January 1, 2007

		<<=====	Drier ====	== Future Co	onditions ==	Wetter	====>>	
Forecast Point	Forecast Period	90% (1000AF)	70% (1000AF)	1 50	Exceeding * == % (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Bear River nr UT-WY State Line	APR-JUL	84	107	100	89	139	162	113
Bear River ab Reservoir nr Woodruff	APR-JUL	89	126	1 110	81	176	213	136
Big Creek nr Randolph	APR-JUL	0.5	1.9]] 3.3	67	5.0	8.4	4.9
Smiths Fork nr Border	APR-JUL	51	71	i I 85	83	103	131	103
Bear River at Stewart Dam	APR-JUL	71	116	1 165	71	195	265	234
Little Bear River at Paradise	APR-JUL	16.2	27) 30	65	46	64	46
Logan R Abv State Dam Nr Logan	APR-JUL	46	69	l 87	69	106	139	126
Blacksmith Fk Abv Up&L Dam Nr Hyrum	APR-JUL	22	33	1 38	79	52	69	48

BE	AR RIVER BASIN			1	BEAR R	IVER BASIN		
Reservoir Storage	(1000 AF) - End	of Decem	aber	1	Watershed Snowpack	Analysis -	January 1	, 2007
			*********					*********
	Usable		able Storag	ge ***		Number	This Yea:	r as % of
Reservoir	Capacity	This	Last	1	Watershed	of	*******	
		Year	Year	Avg		Data Sites	Last Yr	Average
BEAR LAKE	1302.0	404.0	251.8		BEAR RIVER, UPPER (abv	======== На б	59	81
DEAR DAKE	1302.0	404.0	231.6	;	BEAR RIVER, OFFER (ADV	na o	33	0.1
HYRUM	15.3	10.5	10.4	10.2	BEAR RIVER, LOWER (blw	На 8	55	79
				1				
PORCUPINE	11.3	6.5	8.7	3.9	LOGAN RIVER	4	53	78
WOODRUFF NARROWS	57.3	45.5	30.0	23.6	RAFT RIVER	1	77	134
			20.0	23.0		•	5.50.5	154
WOODRUFF CREEK	4.0	2.0	2.1	i	BEAR RIVER BASIN	14	57	80
				1				

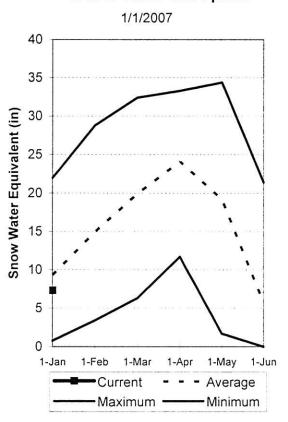
^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels. (2) - The value is natural volume - actual volume may be affected by upstream water management.

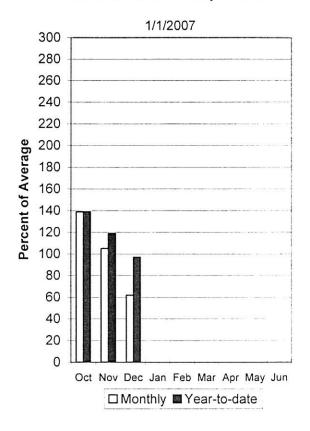
Weber and Ogden River Basins January 1, 2007

Snowpack on the Weber and Ogden Watersheds is below average at 79%, about 59% of last year. Individual sites range from 53% to 99% of average. December precipitation was much below average at 62% bringing the seasonal accumulation (Oct-December) to 97% of average. Soil moisture levels in runoff producing areas are at 62% of saturation in the upper 2 feet of soil compared to 52% last year. Streamflow forecasts range from 75% to 89% of average. Reservoir storage is at 55% of capacity, 15% lower than last year. The Surface Water Supply Index is at 32% for the Weber River and at 37% for the Ogden River. Overall water supply conditions are below normal.

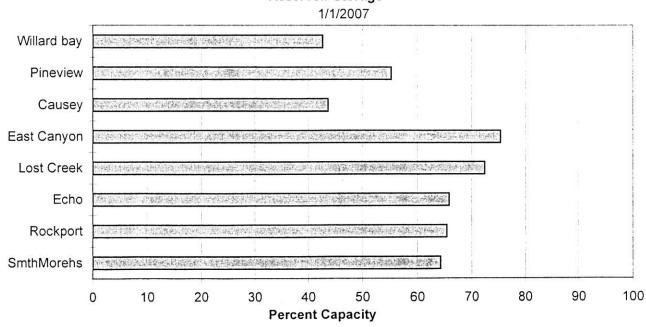
Weber River Snowpack



Weber River Precipitation



Reservoir Storage



WEBER & OGDEN WATERSHEDS in Utah Streamflow Forecasts - January 1, 2007

		<<=====	Drier	- Future Co	onditions ==	Wetter	====>>	
Forecast Point	Forecast Period	90% (1000AF)	70% (1000AF)		Exceeding * = 0% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Smith & Morehouse Res inflow	APR-JUL	22	29	29	85	38	45	34
Weber River nr Oakley	APR-JUL	82		105	85	139	163	123
Rockport Resv Inflow Nr Wanship	APR-JUL	78	110	108	81	153	185	134
Weber River nr Coalville	APR-JUL	79	113	111	81	159	193	137
Chalk Creek at Coalville	APR-JUL	19.4	31	40	89	I 50	67	45
Echo Reservoir inflow	APR-JUL	121	161	145	81	217	257	179
Lost Creek Reservoir inflow	APR-JUL	5.0	9.3	14.0	80	17.3	25	17.6
East Canyon Reservoir inflow	APR-JUL	10.6	18.1	24	77	31	44	31
Weber River at Gateway	APR-JUL	233	316	285	80	 428	510	355
SF Ogden River nr Huntsville	APR-JUL	25	38	48	75	l 59	78	64
Pineview Reservoir inflow	APR-JUL	58	92	100	75	137	171	133
Wheeler Creek nr Huntsville	APR-JUL	2.0	3.5	4.7	75	 6.2 	8.6	6.3
WEBER & OGDEN	WATERSHEDS in	Utah		 	WEBER &	OGDEN WATERSH	EDS in Utah	:=====================================

	WEBER & OGDEN WATERSHEDS in Utah Reservoir Storage (1000 AF) - End of December					WEBER & OGDEN WATERSHEDS is Watershed Snowpack Analysis - (
Reservoir	Usable Capacity	*** Usa This Year	ble Storage Last Year	e *** Avg	Watershed	Number of Data Sites		ar as % of Average				
CAUSEY	7.1	3.1	3.3	2.8	OGDEN RIVER	4	55	68				
EAST CANYON	49.5	37.3	35.1	34.9	WEBER RIVER	9	62	85				
есно	73.9	48.6	50.0	47.9	WEBER & OGDEN WAT	ERSHEDS 13	60	79				
LOST CREEK	22.5	16.3	15.3	14.1								
PINEVIEW	110.1	60.8	52.3	52.9								
ROCKPORT	60.9	39.8	38.1	36.2								
WILLARD BAY	215.0	91.7	181.3	147.7								
				1								

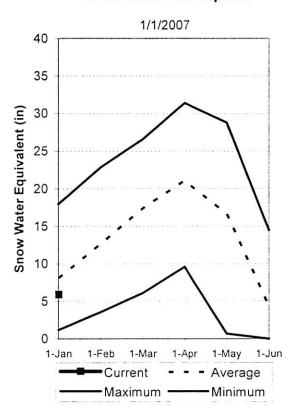
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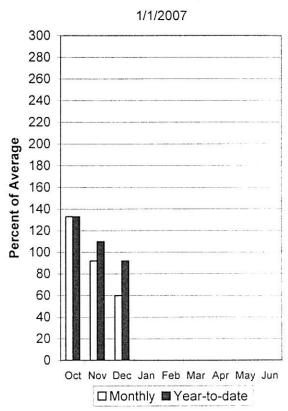
Utah Lake, Jordan River & Tooele Valley Basins January 1, 2007

Snowpacks over these watersheds are below average at 73%, 59% of last year. Individual sites range from 27% to 113% of average. December precipitation was much below average at 60%, bringing the seasonal accumulation (Oct-Dec) to 92% of average. Soil moisture levels in runoff producing areas are at 50% of saturation in the upper 2 feet of soil compared to 43% last year. Forecast streamflows range from 58% to 91% of average. Reservoir storage is at 89% of capacity, 5% more than last year. The Surface Water Supply Index is at 64%, or only 36 in 100 years would have more total water available. General water supply conditions are above average.

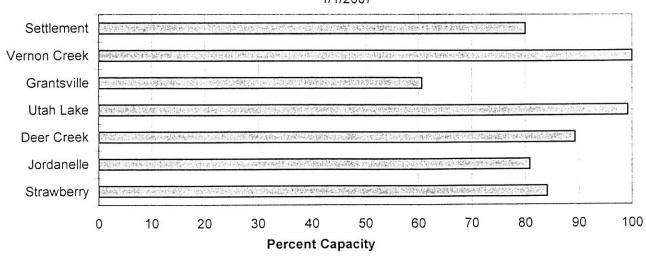
Provo River Snowpack



Provo River Precipitation



Reservoir Storage 1/1/2007



UTAH LAKE, JORDAN RIVER & TOOELE VALLEY Streamflow Forecasts - January 1, 2007

		<<====	Drier ====	== Future Co	onditions =	===== Wetter	====>>	
Forecast Point	Forecast Period	90% (1000AF)	70% (1000AF)) (1000AF))% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Spanish Fork River nr Castilla	APR-JUL	24	45	55	71	84	121	77
Provo River nr Woodland	APR-JUL	0.0	0.0	90	87	1 14.0	34	103
Provo River nr Hailstone	APR-JUL	59	80	l 95	87	114	143	109
Deer Creek Resv Inflow	APR-JUL	47	74	1 105	83	1 120	161	126
American Fk Abv Upper Powerplant	APR-JUL	12.0	19.4	25	78]] 32	44	32
Utah Lake inflow	APR-JUL	0.0	0.0	240	74	1 1 76	189	325
Little Cottonwood Ck nr SLC	APR-JUL	0.0	0.0	33	83	1 4.8	11.9	40
Big Cottonwood Ck nr SLC	APR-JUL	0.0	0.0	31	82	4.7	11.7	38
Mill Creek nr SLC	APR-JUL	2.9	4.1	5.1	73	6.1	7.9	7.0
Parley's Creek nr SLC	APR-JUL	4.9	8.7	1 12.0	72	1 15.5	22	16.7
Dell Fork nr SLC	APR-JUL	0.0	0.0	l 5.0	74	1 1.8	4.5	6.8
Emigration Creek nr SLC	APR-JUL	0.9	2.0	I I 3.0	67	1 4.3	6.6	4.5
City Creek nr SLC	APR-JUL	3.9	5.7	l 1 7.2	83	l 8.8	11.4	8.7
Settlement Creek Abv Resv Nr Tooele		□ 0.4	0.7	1.1	71	1.4	2.0	1.5
South Willow Creek nr Grantsville	APR-JUL	1.5	2.3	l 2.9	90	l 1 3.5	4.7	3.2
UTAH LAKE, JORDAN I Reservoir Storage (1000	RIVER & TOO AF) - End	of December	r	ł	UTAH LAKE, Watershed S	JORDAN RIVER	& TOOELE VAL	LEY 1, 2007
Reservoir	Usable Capacity	*** Usabl	e Storage *	** Water		Numbe of	r This	ear as % of

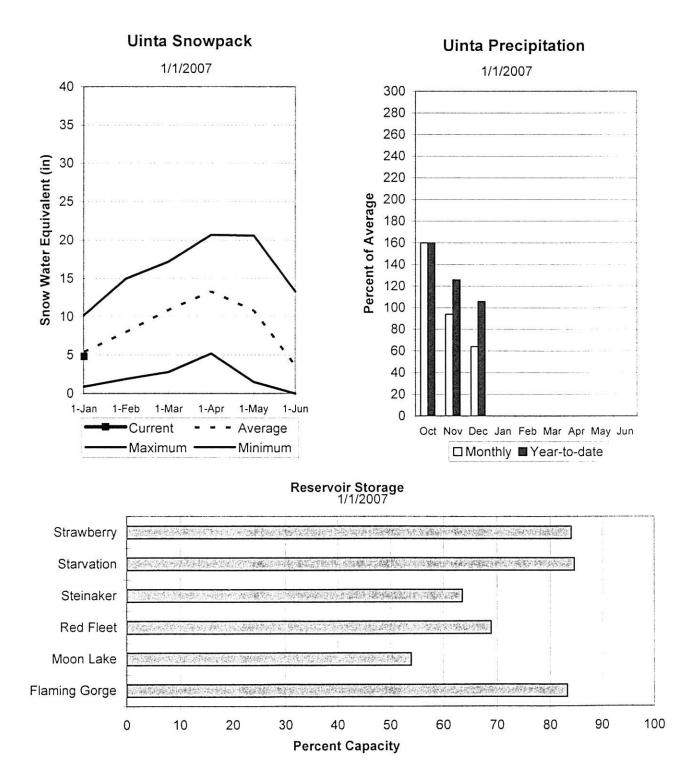
	ORDAN RIVER & TOOK			1	UTAH LAKE, JORDAN I			
Reservoir Storag	e (1000 AF) - End	of Decem	ber	1	Watershed Snowpack	Analysis -	January 1	, 2007
Reservoir	Usable Capacity 	*** Usa This Year	ble Stora Last Year	ge *** Avg	Watershed Date	Number of ata Sites		r as % of
DEER CREEK	149.7	133.6	110.7	102.0	PROVO RIVER & UTAH LAKE	7	53	66
GRANTSVILLE	3.3	2.0	1.8	1.6	PROVO RIVER	4	49	65
SETTLEMENT CREEK	1.0	0.8	0.8	0.5	JORDAN RIVER & GREAT SAL	r 6	56	76
STRAWBERRY-ENLARGED	1105.9	930.0	836.0	640.0	TOOELE VALLEY WATERSHEDS	3	100	82
UTAH LAKE	870.9	864.0	841.1	756.5	UTAH LAKE, JORDAN RIVER	16	59	73
VERNON CREEK	0.6	0.6	0.5					

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels. (2) - The value is natural volume - actual volume may be affected by upstream water management.

Uintah Basin and Dagget SCD's January 1, 2007

Snowpacks across the Uintah Basin and North Slope areas are below average at 89%, which is 83% of last year. The North Slope ranges from 62% to 141% and the Uintah Basin ranges from 69% to 101% of average. Precipitation during December was much below average at 64% bringing the seasonal accumulation (Oct-Dec) to 106% of average. Soil moisture values in runoff producing areas are at 44% of saturation in the upper 2 feet of soil compared to 35% last year. Reservoir storage is at 83% of capacity, 6% more than last year. The Surface Water Supply Index for the western area is 84% and for the eastern area it is 55% indicating above normal conditions on the west side and slightly above for the eastern area. Streamflow forecasts range from 76% to 91% of average. General water supply conditions range from above to near average from west to east with the excellent reservoir carryover.



UINTAH BASIN & DAGGET SCD'S Streamflow Forecasts - January 1, 2007

		<<====== 	Drier	= Future Co	onditions ==	Wetter		
Forecast Point	Forecast Period	90% (1000AF)	70% (1000AF)	50 (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Blacks Fork nr Robertson	APR-JUL	53	70	83	87	97	119	95
EF of Smiths Fork nr Robertson	APR-JUL	14.8	20	24	83	l 28	35	29
Flaming Gorge Reservoir Inflow (2)	APR-JUL	486	717	900	76	1103	1440	1190
Big Brush Ck abv Red Fleet Resv	APR-JUL	10.9	15.5	19.0	91	23	29	21
Ashley Creek nr Vernal	APR-JUL	26	38	47	90	l 57	74	52
WF Duchesne River nr Hanna (2)	APR-JUL	11.3	16.2	20	83	l 24	31	24
Duchesne R nr Tabiona (2)	APR-JUL	49	70	86	82	104	133	105
Upper Stillwater Resv Inflow	APR-JUL	49	63	73	89	84	102	82
Rock Ck nr Mountain Home (2)	APR-JUL	53	68 1	80	90	l I 93	113	89
Duchesne R abv Knight Diversion (2)	APR-JUL	101	134	160	85	188	233	188
Strawberry R nr Soldier Springs (2)	APR-JUL	18.8	36	50	85	l 1 67	96	59
Currant Creek Reservoir Inflow (2)	APR-JUL	6.8	14.3	21	84	29	43	25
Strawberry R nr Duchesne (2)	APR-JUL	39	70	97	80	128	181	121
Lake Fork River Moon Lake Inflow	APR-JUL	42	54	62	91	71	86	68
Yellowstone River nr Altonah	APR-JUL	34	45	54	87	64	79	62
Duchesne R at Myton (2)	APR-JUL	77	149	210	81	282	407	260
Whiterocks near Whiterocks	APR-JUL	29	41	50	89	l 60	76	56
Duchesne R nr Randlett (2)	APR-JUL	95	183 	260	80	350	507	324

	AH BASIN & DAGGET S age (1000 AF) - End		mber	 	UINTAH BASIN Watershed Snowpack A			., 2007
Reservoir	Usable Capacity 		able Stora Last Year	age *** Avg	Watershed	Number of ta Sites		ar as % of Average
FLAMING GORGE	3749.0	3124.0	3082.0	3027.0	UPPER GREEN RIVER in UTAH	6	110	97
MOON LAKE	49.5	26.7	29.2	26.1 J	ASHLEY CREEK	2	155	83
RED FLEET	25.7	17.7	21.2	17.5	BLACK'S FORK RIVER	2	80	94
STEINAKER	33.4	21.2	27.6	20.0	SHEEP CREEK	1	236	114
STARVATION	165.3	140.0	135.4	128.6	DUCHESNE RIVER	11	75	85
STRAWBERRY-ENLARGED	1105.9	930.0	836.0	640.0	LAKE FORK-YELLOWSTONE CRE	4	74	89
				į	STRAWBERRY RIVER	4	70	77
				!	UINTAH-WHITEROCKS RIVERS	2	95	88
				1 1 1	UINTAH BASIN & DAGGET SCD	17	83	89

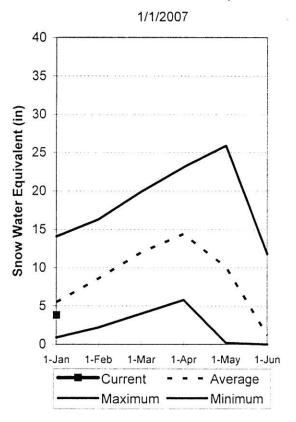
^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table. The average is computed for the 1971-2000 base period.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

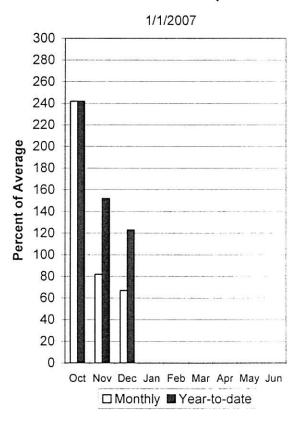
Carbon, Emery, Wayne, Grand and San Juan Co. January 1, 2007

Snowpacks in this region are much below normal at 68% of average, about 75% of last year. Individual sites range from 32% to 108% of average, with the Abajo Mountains the driest in the region. Precipitation during December was much below average at 67%, bringing the seasonal accumulation (Oct-Dec) to 123% of normal. Soil moisture estimates in runoff producing areas are at 51% of saturation in the upper 2 feet of soil compared to 32% last year and down 3% from last month. Forecast streamflows range from 26% to 100% of average, somewhat higher than snowpack conditions alone would indicate due to high fall precipitation and healthy soil moisture conditions. Reservoir storage is at 62% of capacity, down 5% from last year. Surface Water Supply Indices for the area are: Price 70%, San Rafael area 53% and Moab 54%. General runoff and water supply conditions are near to above normal, due to good reservoir carryover.

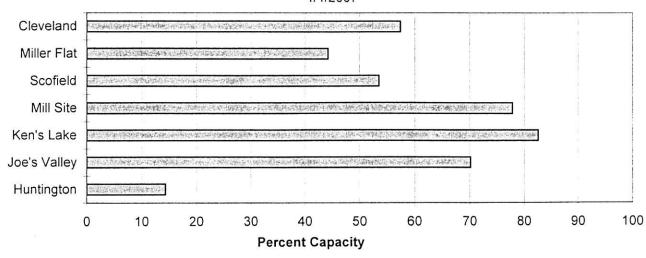
Southeast Utah Snowpack



Southeast Utah Precipitation



Reservoir Storage 1/1/2007



CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co. Streamflow Forecasts - January 1, 2007

<<===== Drier ====== Future Conditions ====== Wetter ====>> Forecast Point == Chance Of Exceeding * Forecast | 50% 90% 70% 30% 10% 30-Yr Avg. (1000AF) (1000AF) (1000AF) (% AVG.) (1000AF) (1000AF) (1000AF) Gooseberry Creek nr Scofield 11.9 APR-JUL 12.2 15.7 5.6 8.1 10.0 84 Price River near Scofield Reservoir APR-JUL 15.6 30 39 87 49 62 45 White River blw Tabbyune Creek 12.0 16.2 24 17.3 APR-JUL 4.3 8 4 69 1910 3190 4120 3170 Green River at Green River, UT (2) APR-JUL 980 2550 Huntington Ck Inflow to Electric Lk APR-JUL 5.7 9.5 12.6 80 16.1 22 15.7 15.2 29 39 49 49 Huntington Ck nr Huntington APR-JUL 80 63 Joe's Valley Resv Inflow APR-JUL 26 38 48 83 59 76 58 39 Ferron Ck (Upper Station) nr Ferron APR-JUL 20 28 34 87 41 52 Colorado River Near Cisco (2) 2290 3700 4650 100 5600 7010 4650 Mill Creek at Sheley Tunnel nr Moab APR-JUL 2.2 3.4 4.5 90 5.8 8.1 5.0 Seven Mile Ck nr Fish Lake 7.0 8.3 10.3 7.0 APR-JUL 4.3 5.8 100 Muddy Creek nr Emery APR-JUL 9.7 14.4 18.0 91 22 29 19.9 North Ck ab R.S. nr Monticello MAR-JUL 0 0 0.1 0.2 26 0.4 0.8 0.8 South Ck ab Lloyd's Res nr Monticell MAR-JUL 0.2 0.5 33 0.8 1.4 Recapture Ck Bl Johnson Ck nr Blandi MAR-JUL 0.3 1.2 2.3 46 4 0 7 7 5 0 1100 1790 1230 San Juan River near Bluff (2) 820 1380 APR-JUL CARBON, EMERY, WAYNE, GRAND, & SAN JUAN CO. CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co. Watershed Snowpack Analysis - January 1, 2007 Reservoir Storage (1000 AF) - End of December *** Usable Storage *** Number Usable | This Year as % of Watershed This Capacity Year Year Avg Data Sites Last Yr Average HUNTINGTON NORTH 2.4 2.4 PRICE RIVER 3 4.2 0.6 JOE'S VALLEY 61.6 43.2 43.4 41.0 SAN RAFAEL RIVER 3 64 72 KEN'S LAKE 2.3 1.9 2.0 1.0 MUDDY CREEK 64 69 MILL SITE 16.7 13.0 9.2 75.0 FREMONT RIVER 148 84 32 7 1 1 SCOFIELD 65.8 35.2 43 8 LASAL MOUNTAINS 100 81 BLUE MOUNTAINS 32 WILLOW CREEK 233 72 CARBON, EMERY, WAYNE, GRA 13 75 68

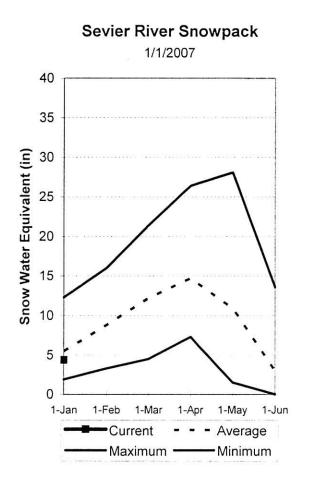
^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

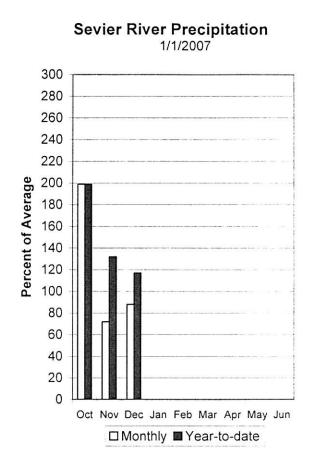
^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

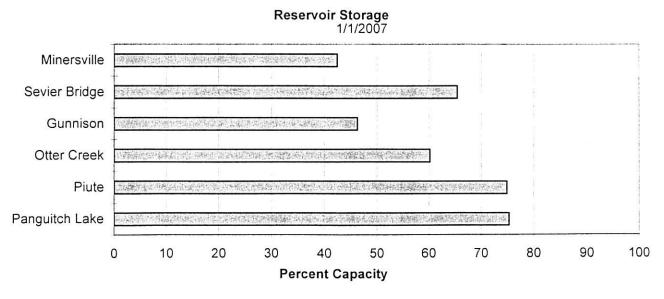
^{(2) -} The value is natural volume - actual volume may be affected by upstream water management.

Sevier and Beaver River Basins Jan 1, 2007

Snowpacks on the Sevier River Basin are below normal at 80% of average, about 108% of last year. Individual sites range from 60% to 150% of average. Precipitation during December was slightly below average at 88% of normal, bringing the seasonal accumulation (Oct-Dec) to 117% of average. Soil moisture estimates in runoff producing areas are at 46% of saturation (Sevier) in the upper 2 feet of soil compared to 44% last year. Streamflow forecasts range from 52% to 80% of average. Reservoir storage is at 66% of capacity, 11% less than last year. Surface Water Supply Indices are: Upper Sevier 71%, Lower Sevier 57% and Beaver 48%. Water supply conditions range from near to above average due to reservoir storage.







SEVIER & BEAVER RIVER BASINS Streamflow Forecasts - January 1, 2007

		<<====	= Drier ==		Future Co	onditions ==	Wetter	*****>>	
Forecast Point		90% (1000AF)	70% (1000AF)	1	50 (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
Sevier River at Hatch	APR-JUL	0.0	0.0		44	80	16.5	41	55
Sevier River nr Kingston	APR-JUL	39	61	- [71	80	98	130	89
EF Sevier R nr Kingston	APR-JUL	10.9	22	į	30	79	44	64	38
Sevier R blw Piute Dam	APR-JUL	13.0	39	į	105	83	98	158	126
Clear Creek Abv Diversions Nr Sevier	APR-JUL	9.7	15.2	į	19.7	90	25	33	22
Salina Creek at Salina	APR-JUL	3.4	9.2	į	15.0	76	22	35	19.7
Manti Ck Blw Dugway Ck Nr Manti	APR-JUL	9.9	13.8	į	13.2	72	20	26	18.3
Sevier R nr Gunnison	APR-JUL	0.0	0.0	į	220	79	84	209	280
Chicken Creek nr Levan	APR-JUL	0.5	1.7	į	2.9	64	4.4	7.2	4.5
Oak Creek nr Oak City	APR-JUL	0.4	0.9	i	1.3	80	1.8	2.7	1.7
Beaver River nr Beaver	APR-JUL	11.4	15.8		20	74	24	31	27
Minersville Reservoir inflow	APR-JUL	0.5	2.7	1	8.6	52	8.7	15.2	16.6
SEVIER & BEAVE Reservoir Storage (1000	R RIVER BAS AF) - End	SINS of Decembe	er		1	SEVIER Watershed Sr	R & BEAVER RIV nowpack Analys	ER BASINS is - Januar	ry 1, 2007
Reservoir	Usable Capacity	*** Usab. This Year	le Storage Last Year	Avg	 Water	shed	Numbe of Data Si	r This	Year as % of Yr Average
GUNNISON	20.3	9.4	11.6	10.9		SEVIER RIVE		156	83
MINERSVILLE (RkyFd)	23.3	9.9	18.2	12.7	 EAST	FORK SEVIER	RIVER 3	156	84
OTTER CREEK	52.5	31.6	41.5	32.8	I SOUTH	FORK SEVIER	RIVER 5	157	82
PIUTE	71.8	53.8	50.7	42.1	LOWER	SEVIER RIVE	R (inclu 6	88	81
SEVIER BRIDGE	236.0	154.4	189.3	148.9	BEAVE	R RIVER	2	89	71
PANGUITCH LAKE	22.3	16.8	17.4	108.0	SEVIE	CR & BEAVER F	RIVER BAS 16	110	80

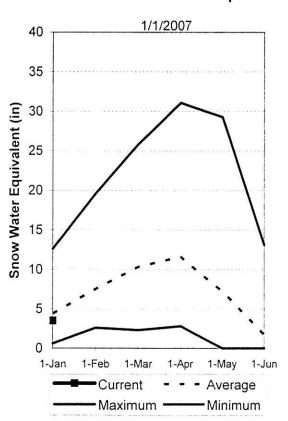
 $[\]star$ 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

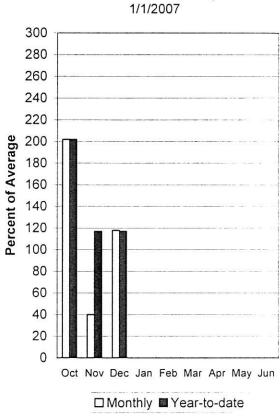
E. Garfield, Kane, Washington, & Iron Co. January 1, 2007

Snowpacks in this region are below normal at 80% of average, which is 198% of last year. Individual sites range from 60% to 150% of average. Precipitation was above normal during December at 118% of average, bringing the seasonal accumulation (Oct-Dec) to 117% of normal. Soil moisture estimates in runoff producing areas are at 33% of saturation in the upper 2 feet of soil compared to 27% last year. Forecast streamflows range from 70% to 75% of average. Reservoir storage is at 76% of capacity, 10% less than last year. The Surface Water Supply Index is at 67%, indicating slightly above normal water availability.

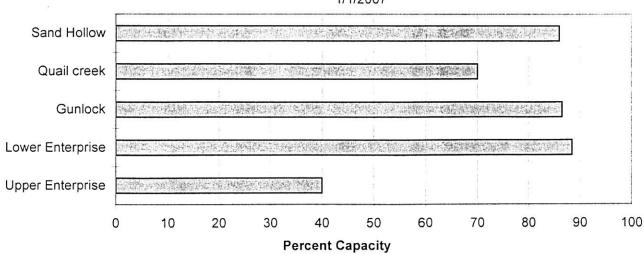
Southwest Utah Snowpack



Southwest Utah Precipitation



Reservoir Storage 1/1/2007



E. GARFIELD, KANE, WASHINGTON, & IRON Co. Streamflow Forecasts - January 1, 2007 <<===== Drier ===== Future Conditions === Forecast Point Forecast === Chance Of Exceeding * 50% Period 90% 70% 10% 30-Yr Avg. (1000AF) (1000AF) (1000AF) (% AVG.) (1000AF) (1000AF) (1000AF) Lake Powell Inflow (2) APR-JUL 3600 5740 7200 91 8660 10800 7930 Virgin River at Virgin APR-JUL 15.3 33 48 75 99 64 Virgin River near Hurricane APR-JUL 10.0 31 52 75 78 127 69 Santa Clara River nr Pine Valley APR-JUL 0.8 2.4 4.1 75 10.0 5.5 Coal Creek nr Cedar City APR-JUL 6.7 11.7 18.0 93 21 29 19.3 E. GARFIELD, KANE, WASHINGTON, & IRON Co. E. GARFIELD, KANE, WASHINGTON, & IRON Co. Reservoir Storage (1000 AF) - End of December Watershed Snowpack Analysis - January 1, 2007 *** Usable Storage *** Usable | Number This Year as & of Reservoir This Watershed Capacity Last of Year Data Sites Last Yr Average GUNLOCK 10.4 9.0 10.8 5.7 VIRGIN RIVER 5 182 80 LAKE POWELL 24322.0 12103.0 11604.0 PAROWAN 2 134 73 OUAIL CREEK 40.0 28.0 34.3 23.9 ENTERPRISE TO NEW HARMONY 2 183 67 UPPER ENTERPRISE 10.0 COAL CREEK 4.0 9.0 ---2 149 75 LOWER ENTERPRISE 2.6 2.3 0.0 26.7 ESCALANTE RIVER 87

E. GARFIELD, KANE, WASHIN

186

80

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

^{(2) -} The value is natural volume - actual volume may be affected by upstream water management.

UTAH			
SURFACE	WATER	SUPPLY	INDEX
Snow Surveys	NRCS	USDA	
Basin or Region	SWSI/%	Percentile	Years with
1-Jan-07			Similar SWSI
Bear River	-2.26	23%	02,06,90,62
Ogden River	-1.07	37%	70,66,76,94
Weber River	-1.52	32%	00,89,94,79
Provo	1.96	73%	74,96,80,69
West Uintah Basin	2.83	84%	01,00,99,97
East Uintah Basin	0.43	55%	00,06,97,87
Price River	1.67	70%	66,67,79,00
San Rafael	0.23	53%	00,74,05,82
Moab	0.30	54%	06,94,97,05
Upper Sevier River	1.76	71%	68,82,88,86
Lower Sevier River	0.60	57%	00,75,81,70
Beaver River	-0.17	48%	67,71,96,78
Virgin River	1.39	67%	94,00,06,92
Snow Surveys			SWSI Scale: -4 to 4 Percentile: 0 -
245 N Jimmy Doolittle Rd Salt Lake City, UT (801) 524-5213	I		100%

What is a Surface Water Supply Index?

The Surface Water Supply Index (SWSI) is a predictive indicator of total surface water availability within a watershed for the spring and summer water use seasons. The index is calculated by combining pre-runoff reservoir storage (carryover) with forecasts of spring and summer streamflow which are based on current snowpack and other hydrologic variables. SWSI values are scaled from +4.1 (abundant supply) to -4.1 (extremely dry) with a value of zero (0) indicating median water supply as compared to historical analysis. SWSI's are calculated in this fashion to be consistent with other hydroclimatic indicators such as the Palmer Drought Index and the Precipitation index.

Utah Snow Surveys has also chosen to display the SWSI as a PERCENT CHANCE OF NON-EXCEEDANCE. While this is a very cumbersome name, it has the simplest application. It can be best thought of as a simple scale of 1 to 99 with 1 being the drought of record (driest possible conditions) and 99 being the flood of record (wettest possible conditions) and a value of 50 representing average conditions. This rating scale is a percentile rating as well, for example a SWSI of 75% means that this years water supply is greater than 75% of all historical events and that only 25% of the time has it been exceeded. Conversely a SWSI of 10% means that 90% of historical events have been greater than this one and that only 10% have had less total water supply. This scale is far more intuitive for most people and is totally comparable between basins: a SWSI of 50% means the same relative ranking on watershed A as it does on watershed B, which may not be strictly true of the +4 to -4 scale.

For more information on the SWSI go to: $\underline{www.ut.nrcs.usda.gov/snow/}$ on the water supply page. The entire period of historical record for reservoir storage and streamflow is available.

SNOW COURSE DATA

JANUARY 2007

SNOW COURSE	ELEV.	DATE	DEPTH	WATER CONTENT	YEAR	71-00
ACUA CANVON SNOTEL	9000	1 /01	10	2 7		
AGUA CANYON SNOTEL ALTA CENTRAL BEAVER DAMS SNOTEL BEAVER DIVIDE SNOTEL	8800	12/20	12	11 5	10.4	2.9
BEAUED DAMS SNOWED	8000	1/01	16	11.5	19.4	16.5
BEAVER DAMS SNOTEL BEAVER DIVIDE SNOTEL BEN LOMOND PK SNOTEL BEN LOMOND TR SNOTEL	9290	1/01	10	2.9	4.4	4.3
BEN LOMOND PK SNOTEL BEN LOMOND TR SNOTEL	6000	1/01	16	9.0	19.0	14.5
	6450		10	4.5	9.9	
BIG FLAT SNOTEL	10200	1 /01	20	6 3	-	4.2
		1/01	26	0.3	-	
BLACK FLAT-U.M. CK S	8100	1 /01	16	2.9	-	2.8
		1/01	16	2.9		
BLACK'S FORK GS-EF BLACK'S FORK JUNCTN					-	3.3
BLACK'S FORK JUNCTN	8930	1 /01	00	4.0	-	3.7
BOX CREEK SNOTEL BRIAN HEAD	10000	1/01	22	4.9	4.3	5.3
BRIAN HEAD	10000	1 /01	20	8.2	-	8.2
BRIGHTON SNOTEL BRIGHTON CABIN	8750	1/01	38	8.2	13.7 12.7	10.9
BRIGHTON CABIN	8700	12/29	38	8.8	12.7	11.5
BROWN DUCK SNOTEL	10600	1/01	35	6.9	10.1	7.7
BRYCE CANYON	8000			2000	676	2.1
BUCK FLAT SNOTEL BUCK PASTURE	9800	1/01	23	5.0	8.9	7.2
BUCK PASTURE	9700				-	-
BUCKBOARD FLAT BUG LAKE SNOTEL	9000				-	5.4
BUG LAKE SNOTEL	7950	1/01	27	6.2	10.4	8.3
BURT'S-MILLER RANCH CAMP JACKSON SNOTEL	7900				-	2.2 5.6
CAMP JACKSON SNOTEL	8600	1/01	14	1.8	.8	5.6
CASCADE MOUNTAIN SNO	7770	1/01	23	5.1 3.0	9.2	-
CASTLE VALLEY SNOTEL	9580	1/01 1/01	17	3.0	2.8	4.9
CHALK CK #1 SNOTEL CHALK CK #2 SNOTEL	9100	1/01	37	10.0	13.9	10.1
CHALK CK #2 SNOTEL	8200	1/01	29	6.6	6.5	6.7
CHALK CREEK #3	7500					2 5
CHEPETA SNOTEL	10300	1/01	29	5.4	5.5	6.0
CLAYTON SPRINGS SNTL	10000	1/01	20	3.9	2.3	-
CLEAR CK RIDG #1 SNT	9200	1/01	21	4.5	8.9	7.7
CLEAR CK RIDG #2 SNT	8000	1/01	24	4.7	6.7	6.0
	8200				-	_
CURRANT CREEK SNOTEL	8000	1/01	15	3.1	5.7	4.2
CURRANT CREEK SNOTEL DANIELS-STRAWBERRY S	8000	1/01	22	5.0	7.8	6.5
DILL'S CAMP SNOTEL	9200	1/01	22	3.8	5.9	5.5
DONKEY RESERVOIR SNO	9800	1/01	23	4.3	1.6	4.0
DONKEY RESERVOIR SNO DRY BREAD POND SNTL	8350	1/01	28	6.2	10.5	9.1
DRY FORK SNOTEL	7160	1/01	24	5.7	6.0	6.9
EAST WILLOW CREEK SN	8250	1/01	14	5.7 2.1 11.0	. 9	2.9
FARMINGTON U. SNOTEL		1/01	42	11.0	18.9	13.0
FARMINGTON LOWER SC		-,				10.4
FARMINGTON I. SNOTEL	6780	1/01	24	6.3	10 2	-
FARMINGTON L. SNOTEL FARNSWORTH LK SNOTEL	9600	1/01	38	8.4	5.7	8.0
FISH LAKE		1,01	50	5.4	-	2.9
FIVE POINTS LAKE SNO		1/01	28	7 1	8.5	
G.B.R.C. HEADQUARTER		1,01	20		-	-
G.B.R.C. MEADOWS					-	9.7
GARDEN CITY SIMMIT	7600				-	6.5
GARDEN CITY SUMMIT GARDNER PEAK SNOTEL	8350	1/01	1.4	2 9	2.4	
GEORGE CREEK	8840	1/01		2.3	-	-
GOOSEBERRY R.S.	9400				-	5.1
GOOSEBERRY R.S. SNTL		1 /01	17	3.0	3.7	
GUTZ PEAK SNOTEL			7	3.0 1.7	.4	
		1/01	21	5.7	11.7	
HARDSCRABBLE SNOTEL HARRIS FLAT SNOTEL	7700	1/01	24 6	6.4 1.5	.5	
HAVDEN FORK SNOTEL	0100	1/01	24	5.0	9.7	
HAYDEN FORK SNOTEL HENRY'S FORK	10000	1/01	24	3.0	-	-
HENRI S FORK	9500	1/01	24	4.0	5.3	4 1
HEWINTA SNOTEL HICKERSON PARK SNTL	9300	1/01	24	4.0 3.3	1.4	
HICKERSON PARK SNTL	2100	12/01	23	1.3	3.1	.2
HIDDEN SPRINGS HOBBLE CREEK SUMMIT	7400	12/21	O	1.2	3.1	6.1
HOLE-IN BOOK SYSTEM	0150	1/01	25	2 0		
HOLE-IN-ROCK SNOTEL HORSE RIDGE SNOTEL	9120	1/01	25	3.8	3./	9.3
			30	6.9		
HUNTINGTON-HORSESHOE	9800	1 /01	10	4 2	-	9.7
INDIAN CANYON SNOTEL		1/01	19	4.2	3.9	
JOHNSON VALLEY	8850				(c) 	2.7

SNOW COURSE	ELEV.	DATE	SNOW DEPTH			
JONES CORRAL G.S.	9720				. -	
KILFOIL CREEK	7300				-	5.5
KILLYON CANYON KIMBERLY MINE SNOTEL	6300	12/27	8	1.4	4.8	5.1
KIMBERLY MINE SNOTEL	9300	1/01	25	5.5	3.9 2.4	6.0
KING'S CABIN SNOTEL	8730	1/01	20	3.1		
KLONDIKE NARROWS	7400		0.5		-	7.5
KOLOB SNOTEL LAKEFORK #1 SNOTEL	10100	1/01 1/01	26	4.8	2.5	6.9
LAKEFORK BASIN SNTL	10000	1/01	33 71	6.7	5.4	5.6
LAKEFORK MOUNTAIN #3	8400	10/			_	2 8
LAMBS CANYON	7400	12/28	30	6.6	7.3	7.4
LASAL MOUNTAIN LOWER		3007337 \$ 3007.00			-	3.8
LASAL MOUNTAIN SNTL	9850	1/01	15	3.8		
LIGHTNING RIDGE SNTL	8220	1/01	25	6.2	10.9	-
		1/01	31	5.6		5.5
LITTLE BEAR LOWER	6000					4.3
LITTLE BEAR SNOTEL	6550				5.1	5.2
LITTLE GRASSY SNOTEL LONG FLAT SNOTEL	8000	1/01 1/01	5 12	1.4 1.9	.4 1.4	2.1
LONG VALLEY JCT. SNT	7500	1/01	12		7	1.8
LOOKOUT PEAK SNOTEL	8200	1/01	34	2.7 9.1	16.5	9.9
LOST CREEK RESERVOIR		-,			-	2.0
LOUIS MEADOW SNOTEL	6700	1/01	26	7.3	11.4	s: - s:
MAMMOTH-COTTONWD SNT		1/01	23	4.8	9.5	7.6 5.4
MERCHANT VALLEY SNTL	8750	1/01	17	2.9	3.8	5.4
MIDDLE CANYON	7000				6 4	5.9
MIDWAY VALLEY SNOTEL	9800	1/01				
MILL CREEK MILL-D NORTH SNOTEL	6950	12/28	28	6.1	7.3 14.3	8.3
MILL-D NORTH SNOTEL	8960	1/01	29	6.5	14.3	10.3
MILL-D SOUTH FORK MINING FORK SNOTEL	7400	12/27	27 25	6.2 6.2	10.4 6.8	8.6
MINING FORK SNOTEL	8000	1/01	25	0.2	14.0	11 0
MONTE CRISTO SNOTEL MOSBY MTN. SNOTEL	9500	1/01	25	4.4	14.0 4.8	5.1
MT.BALDY R.S.	9500	1,01	23	•.•	-	
MUD CREEK #2	8600				_	5.3
OAK CREEK	7760				-	3 -
PANGUITCH LAKE R.S.	8200				-	-
PARLEY'S CANYON SNTL	7500	1/01	25	5.5	8.9 12.1	7.2
PARRISH CREEK SNOTEL	7740	1/01	32	8.6	12.1	-
PAYSON R.S. SNOTEL		1/01	18	4.9	6.9	7.2
PICKLE KEG SNOTEL PINE CREEK SNOTEL	9600	63	23	5.2	7.0	
RED PINE RIDGE SNTL	8800	1/01 1/01	22	6.9 4.1	7.7	8.8 6.7
REDDEN MINE LOWER	8500	1/01	22	4.1	-	6.7
REES'S FLAT	7300				-	5.6
ROCK CREEK SNOTEL		1/01	16	3.3	5.2	3.7
ROCKY BN-SETTLEMT SN		1/01	29	7.4	6.8	10.0
SEELEY CREEK SNOTEL	10000	1/01	21	5.6	6.5	6.4
SMITH MOREHOUSE SNTL	7600	1/01	23	5.4	7.4	5.7
SNOWBIRD SNOTEL	9700	1/01	36	9.1	20.3	
SPIRIT LAKE	10300				-	5.5
SQUAW SPRINGS	9300					3.2
STEEL CREEK PARK SNO		1/01	29	6.2	7.4	6.7 3.9
STILLWATER CAMP STRAWBERRY DIVIDE SN	8550 8400	1/01	25	5.1	- 7.4	7.4
SUSC RANCH	8200	1/01	25	3.1	-	2.8
TALL POLES	8800				_	5.3
TEMPLE FORK SNOTEL		1/01	25	5.0	10.2	-
THAYNES CANYON SNTL	9200	1/01	35	8.5	12.8	9.0
THISTLE FLAT	8500				_	_
TIMBERLINE	9100				-	_
TIMPANOGOS DIVIDE SN		50	28	5.7	10.7	
TONY GROVE LK SNOTEL		1/01	44	12.4	23.3	
TONY GROVE R.S.	6250				-	5.0 9.8
TRIAL LAKE TRIAL LAKE SNOTEL	9960 9960	1/01	31	5.8	15.6	
TROUT CREEK SNOTEL	9400	1/01	21	4.5	2.5	4.2
UPPER JOES VALLEY	8900	-,		15/15/55	-	4.1
VERNON CREEK SNOTEL		1/01	14	2.3	2.3	4.0
VIPONT	7670	185			-	-
WEBSTER FLAT SNOTEL		1/01	20	4.0	2.7	
WHITE RIVER #1 SNTL		1/01	21	3.1	5.2	5.2
WHITE RIVER #3	7400	1 (01	• •	2 0	-	3.5
WIDTSOE #3 SNOTEL	9500 9000	1/01	19	3.0	1.3	4.4
WRIGLEY CREEK YANKEE RESERVOIR	8700				_	3.7
IMIGE RESERVOIR	5750				-	٥.,



Issued by

Arlen Lancaster Chief Natural Resources Conservation Service U.S. Department of Agriculture

Prepared by

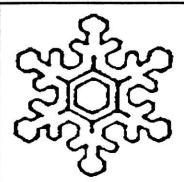
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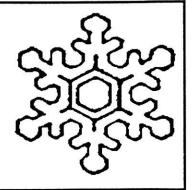
YOU MAY OBTAIN THIS PRODUCT AS WELL AS CURENT SNOW, PRECIPITATION, TEMPERATURE AND SOIL MOISTURE, RESERVOIR, SURFACE WATER SUPPLY INDEX, AND OTHER DATA BY VISITING OUR WEB SITE @: http://www.ut.nrcs.usda.gov/snow/

Snow Survey, NRCS, USDA 245 North Jimmy Doolittle Road Salt Lake City, UT 84116 (801) 524-5213



Utah Water Supply Outlook Report

Natural Resources Conservation Service Salt Lake City, UT





Utah Water Supply Outlook Report

February, 2007



Red Pine Ridge SNOTEL, January 2007, Central Utah, Wasatch Plateau. Photo by Randy Julander, NRCS, USDA.

Water Supply Outlook Reports and Federal - State - Private Cooperative Snow Surveys

For more water supply and resource management information, contact:

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How forecasts are made

Most of the annual streamflow in the western United States originates as snowfall that has accumulated in the mountains during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Measurements of snow water equivalent at selected manual snowcourses and automated SNOTEL sites, along with precipitation, antecedent streamflow, and indices of the El Niño / Southern Oscillation are used in computerized statistical and simulation models to prepare runoff forecasts. These forecasts are coordinated between hydrologists in the Natural Resources Conservation Service and the National Weather Service. Unless otherwise specified, all forecasts are for flows that would occur naturally without any upstream influences.

Forecasts of any kind, of course, are not perfect. Streamflow forecast uncertainty arises from three primary sources: (1) uncertain knowledge of future weather conditions, (2) uncertainty in the forecasting procedure, and (3) errors in the data. The forecast, therefore, must be interpreted not as a single value but rather as a range of values with specific probabilities of occurrence. The middle of the range is expressed by the 50% exceedance probability forecast, for which there is a 50% chance that the actual flow will be above, and a 50% chance that the actual flow will be below, this value. To describe the expected range around this 50% value, four other forecasts are provided, two smaller values (90% and 70% exceedance probability) and two larger values (30%, and 10% exceedance probability). For example, there is a 90% chance that the actual flow will be more than the 90% exceedance probability forecast. The others can be interpreted similarly.

The wider the spread among these values, the more uncertain the forecast. As the season progresses, forecasts become more accurate, primarily because a greater portion of the future weather conditions become known; this is reflected by a narrowing of the range around the 50% exceedance probability forecast. Users should take this uncertainty into consideration when making operational decisions by selecting forecasts corresponding to the level of risk they are willing to assume about the amount of water to be expected. If users anticipate receiving a lesser supply of water, or if they wish to increase their chances of having an adequate supply of water for their operations, they may want to base their decisions on the 90% or 70% exceedance probability forecasts, or something in between. On the other hand, if users are concerned about receiving too much water (for example, threat of flooding), they may want to base their decisions on the 30% or 10% exceedance probability forecasts, or something in between. Regardless of the forecast value users choose for operations, they should be prepared to deal with either more or less water. (Users should remember that even if the 90% exceedance probability forecast is used, there is still a 10% chance of receiving less than this amount.) By using the exceedance probability information, users can easily determine the chances of receiving more or less water.

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STATE OF UTAH GENERAL OUTLOOK Feb 1, 2007

SUMMARY

It is not often that we have a January this cold and this dry, especially as far as snow accumulation is concerned. It is even less often when we write an obituary for the season at the beginning of February. We are very optimistic folks here in Utah, especially in the water supply business and we are always looking for that glimmer of hope, the Hail Mary pass to the end zone or even some sea gulls eating crickets. That is about what it will take at this point to bring Utah watersheds back to average snowpack conditions. In a nutshell: the Bear River needs 163% of average snowpack accumulation in February and March to reach average, the probability of getting that much snow is 3%. That is the optimistic version. The pessimist realizes there is a 97% probability it's not going to happen. The Weber: 163% accumulation, 0% probability, Provo: 164%, 3%, Uintah Basin: 140%, 6%, southeast Utah: 167%, 6%, Sevier 149%, 19% and southwest Utah: 163%, accumulation and a 33% probability. The natural variability in southern Utah can be amazing - if there were no snow in that region, it would still have an 11% chance of getting back to normal. So, can it happen, the answer is yes, will it happen and the answer is maybe - but. Maybe - the term itself is full of doubt, couple that with a meteorological forecast of essentially nothing for the next week or so and we only have half of February and March to make the accumulation. The coffin seems to be nailed and we are only talking about what to put on the epitaph at this point, and as noted, it is still the beginning of February. On a brighter note, when snowpacks are this low, they typically rebound to some degree. Only a few cases have continued to spiral downward like 1977 snowpacks did. While average is not likely, perhaps we might make it back to 80% if things change back to a wetter pattern. Soil moisture continues to decline slightly from last month with: Bear - 66%, Weber - 60%, Provo - 48%, Uintah Basin -39%, southeast Utah - 49%, Sevier - 44%, southwest Utah - 31% and statewide - 48% of saturation. These values are a little higher than last year. In general, most areas of the state have excellent reservoir carryover. General water supply conditions range from below to near average. Streamflow forecasts range from 10% to 86% of average. Surface Water Supply Indices range from 23% on the Bear River, to 84% on the west side of the Uintah Basin.

SNOWPACK

February first snowpacks as measured by the NRCS SNOTEL are as follows: Bear - 62%, Weber - 60%, Provo - 57%, Uintahs - 74%, southeast Utah - 55%, Sevier - 67%, southwest Utah - 65% and the statewide figure is 64% of average. South facing aspects have melted off to surprisingly high elevations, in some places to the 10,000 ft range. Utah needs between 140% and 167% of normal snowpack accumulation in February and March to reach average conditions. The probability of getting this accumulation ranges between 0 and 33% with most areas at 6% or less. Although there are still several months of potential accumulation left in this season, we are not likely to see a return to average conditions this year.

PRECIPITATION

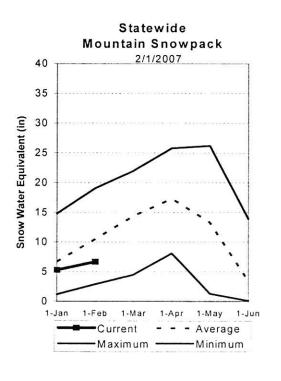
Mountain precipitation during January was much below normal at 40% of average statewide. Precipitation ranged from 34% on the Bear to 50% on the Uintah Basin. This brings the seasonal accumulation (Oct-Jan) to 86% of average statewide and ranges from 77% on the Bear to 99% over southeastern Utah.

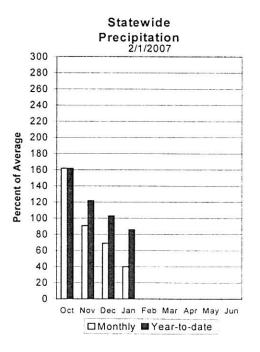
RESERVOIRS

Storage in 41 of Utah's key irrigation reservoirs is at 68% of capacity. This is an increase of 1% from last year. Reservoirs across the State have been making steady gains in storage. Bear Lake really is the last reservoir to remain in an extremely low condition due to the prolonged drought.

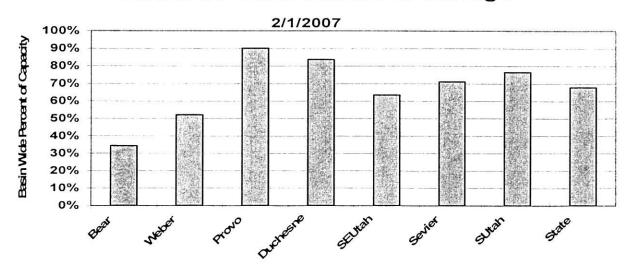
STREAMFLOW

Snowmelt streamflows are expected to have a wide range from much below average to near average across the state of Utah this year. Forecast streamflows range from 10% on North Creek nr Monticello to 86% of average for Big Brush Creek nr Red Fleet Reservoir. Most flows are forecast to be in the 50% to 70% range.





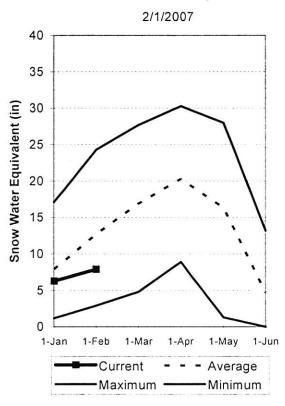
Statewide Basin Reservoir Storage



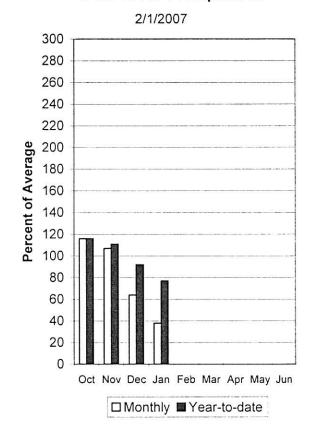
Bear River Basin February 1, 2007

Snowpacks on the Bear River Basin are much below average at 62% of normal, about 44% of last year. Specific sites range from 53% to 91% of normal. January precipitation was much below average at 38%, which brings the seasonal accumulation (Oct-January) to 77% of average. Soil moisture levels in runoff producing areas are at 66% of saturation in the upper 2 feet of soil compared to 57% last year. This is due mainly to above average precipitation in October. Forecast streamflows range from much below average to average (41%-81%) volumes this spring. Reservoir storage is low at 35% of capacity, 13% more than last year. The Surface Water Supply Index is at 21% for the Bear River, or 79% of years have had more total water available. Water supply conditions are much below normal due to low reservoir storage and only about a 3% chance this year of reaching April 1st snow water equivalent average.

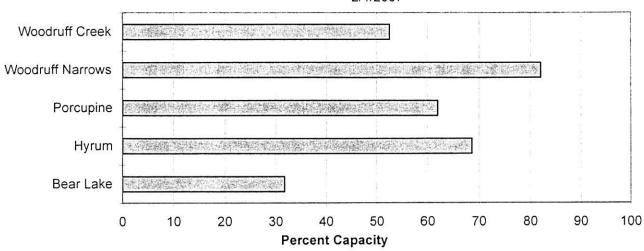
Bear River Snowpack



Bear River Precipitation



Reservoir Storage 2/1/2007



BEAR RIVER BASIN Streamflow Forecasts - February 1, 2007

			Drier ===								
Forecast Point	Forecast Period	90% (1000AF)	70% (1000AF)	l	5((1000AF)	% (% AVG	.)	30% (1000)	AF) (1	10% 000AF)	30-Yr Avo
Bear River nr UT-WY State Line	APR-JUL	61	79	- i	92	81	 !	10		129	113
ear River ab Reservoir nr Woodruff	APR-JUL	30	60	ļ	85	63	1	11:	5	168	136
ig Creek nr Randolph	APR-JUL	0.3	1.1	ļ	2.0	41		3.:	ı	5.2	4.9
miths Fork nr Border	APR-JUL	37	53	1	65	63	1	78	3	101	103
ear River at Stewart Dam	APR-JUL	27	77	1	125	53	l I	18	•	295	234
ittle Bear River at Paradise	APR-JUL	5.8	13.0	ļ	19.5	42	ļ	2	7	41	46
ogan R Abv State Dam Nr Logan	APR-JUL	32	49	ļ	63	50	l	7	•	105	126
lacksmith Fk Abv Up&L Dam Nr Hyrum	APR-JUL	10.1	18.2	1	25	52		3	3	46	48
BEAR RIV Reservoir Storage (1000	ER BASIN AF) - End	of January	,		!	Watershe	BE ed Snow		lysis ·		y 1, 2007
eservoir	Usable Capacity	*** Usabl This Year	e Storage Last Year	*** Avg	 Water	shed		No Data	umber of Sites	This Y	ear as % o
EAR LAKE	1302.0		276.0			RIVER, U			6	49	66
YRUM	15.3	10.5	10.5	10.4	BEAR	RIVER, I	OWER (blw Ha	8	40	60
DRCUPINE	11.3	7.0	9.0	4.4	LOGAN	RIVER			4	38	59

25.2 | RAFT RIVER

BEAR RIVER BASIN

1

14

48

43

95

62

47.0

2.1

34.0

2.7

57.3

4.0

WOODRUFF NARROWS

WOODRUFF CREEK

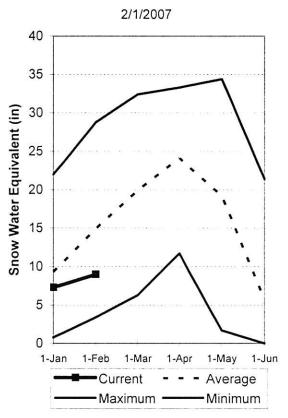
^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table. The average is computed for the 1971-2000 base period.

The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 The value is natural volume - actual volume may be affected by upstream water management.

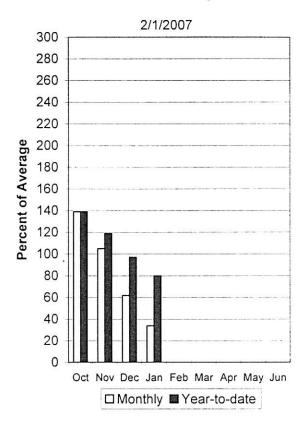
Weber and Ogden River Basins February 1, 2007

Snowpack on the Weber and Ogden Watersheds is much below average at 60%, about 45% of last year. Individual sites range from 38% to 87% of average. January precipitation was much below average at 34% bringing the seasonal accumulation (Oct-January) to 80% of average. Soil moisture levels in runoff producing areas are at 60% of saturation in the upper 2 feet of soil compared to 55% last year. Streamflow forecasts range from 41% to 71% of average. Reservoir storage is at 52% of capacity, 22% lower than last year. The Surface Water Supply Index is at 12% for the Weber River and at 26% for the Ogden River. Overall water supply conditions are below normal with very little probability of reaching April 1st average snow water equivalent.

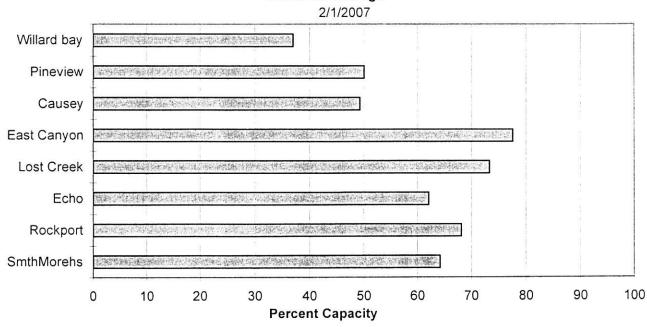
Weber River Snowpack



Weber River Precipitation



Reservoir Storage



WEBER & OGDEN WATERSHEDS in Utah Streamflow Forecasts - February 1, 2007

		<=====================================	Drier ===		Future Co	nditions =	wetter	====>>	!
Forecast Point	Forecast Period	90% (1000AF)	70% (1000AF)	1	50 (1000AF)	% (% AVG.)	30% (1000AF)	10% (1000AF)	
Smith & Morehouse Res inflow	APR-JUL	16.4	21		24	71	27	32	34
Weber River nr Oakley	APR-JUL	53	72	1	85	69	98	117	123
Rockport Resv Inflow Nr Wanship	APR-JUL	43	68	1	85	63	102	127	134
Weber River nr Coalville	APR-JUL	42	64	1	82	60	102	136	137
halk Creek at Coalville	APR-JUL	10.9	21	1	30	67	40	59	45
cho Reservoir inflow	APR-JUL	52	87	1	110	62	133	168	179
ost Creek Reservoir inflow	APR-JUL	2.7	5.4	1	7.8	44	10.6	15.5	17.6
ast Canyon Reservoir inflow	APR-JUL	5.6	11.0	1	15.7	51	21	31	31
eber River at Gateway	APR-JUL	60	129	-	175	49	221	290	355
F Ogden River nr Huntsville	APR-JUL	14.7	26	-	35	55	46	64	64
ineview Reservoir inflow	APR-JUL	18.0	48	į	68	51	1 88	118	133
heeler Creek nr Huntsville	APR-JUL	0.8	1.7		2.6	41	3.6	5.5	6.3
WEBER & OGDEN Reservoir Storage (10	WATERSHEDS in	n Utah of January	,			WEBER & Watershed S	OGDEN WATERSHI	EDS in Utah is - Februa	n ary 1, 2007
eservoir	Usable Capacity	*** Usabl This Year	Le Storage Last Year	*** Avg	 Water 	shed	Numbe: of Data Si	This	Year as % o
AUSEY	7.1	3.5	3.3	2.8	Inches and the Property	RIVER	4	39	49
AST CANYON	49.5	38.4	36.9	35.4	I WEBER	RIVER	9	49	67

Reservoir	Usable Capacity	- T T U S N N N N N N N N N N N N N N N N N N		***	 Watershed	Number of	This Year as % of	
	1	Year	Year	Avg		Data Sites	Last Yr	Average
CAUSEY	7.1	3.5	3.3	2.8	OGDEN RIVER	4	39	49
EAST CANYON	49.5	38.4	36.9	35.4	WEBER RIVER	9	49	67
ЕСНО	73.9	45.9	53.0	50.2	WEBER & OGDEN WATERSHE	DS 13	45	60
LOST CREEK	22.5	16.5	15.5	14.0	! !			
PINEVIEW	110.1	55.1	57.1	51.7	1			
ROCKPORT	60.9	41.5	40.0	34.3				
WILLARD BAY	215.0	79.5	190.1	151.6	1 			
					I .			

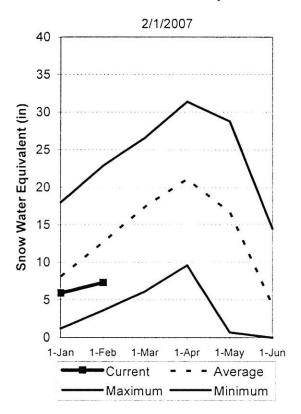
^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table. The average is computed for the 1971-2000 base period.

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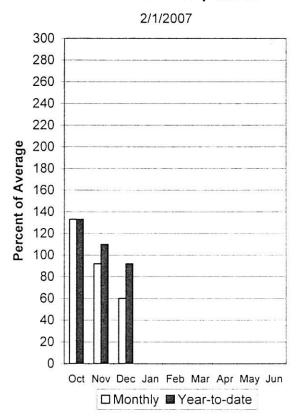
Utah Lake, Jordan River & Tooele Valley Basins February 1, 2007

Snowpack over these regions are much below average at 57%, which is 44% of last year and down 16% from last month. These watersheds have a 3% chance of reaching average snowpack this season. Individual sites range from 23% to 86% of average. January precipitation was much below average at 37%, bringing the seasonal accumulation (Oct-Jan) to 77% of average. Soil moisture levels in runoff producing areas are at 48% of saturation in the upper 2 feet of soil compared to 44% last year. Reservoir storage is at 90% of capacity, 6% higher than last year. Streamflow forecasts range from 39% to 74% of average. The Surface Water Supply Index is at 48%, indicating general water supply conditions are near normal due to good reservoir carryover.

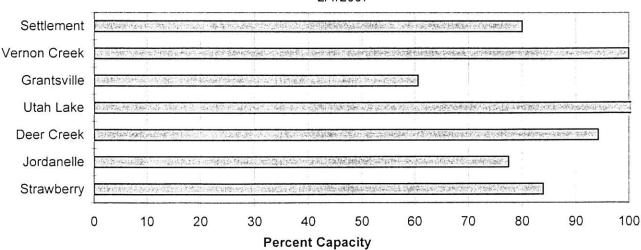
Provo River Snowpack



Provo River Precipitation



Reservoir Storage 2/1/2007



UTAH LAKE, JORDAN RIVER & TOOELE VALLEY Streamflow Forecasts - February 1, 2007

			= Drier ====			nditions ==		ter ====	=>>	***********
Forecast Point		90% (1000AF)		1 . (1	509 (000AF)	{ (% AVG.)	30% (1000)	10 F) (100	% OAF)	30-Yr Avg. (1000AF)
Spanish Fork River nr Castilla	APR-JUL	5.3	18.5		32	42	49		81	77
Provo River nr Woodland	APR-JUL	41	56	!	67	65	79	1	00	103
Provo River nr Hailstone	APR-JUL	37	53	İ	65	60	79	1	01	109
Deer Creek Resv Inflow	APR-JUL	40	62	į	80	64	100	1	33	126
American Fk Abv Upper Powerplant	APR-JUL	6.2	9.8	ļ	12.6	39	15.8		21	32
Utah Lake inflow	APR-JUL	83	126	!	160	49	198	2	60	325
West Canyon Ck Nr Cedar Fort	APR-JUL	0.3	0.7	1	1.1	46	1.6	2	. 5	2.4
Little Cottonwood Ck nr SLC	APR-JUL	13.8	18.5	1	22	55	2 6		32	40
Big Cottonwood Ck nr SLC	APR-JUL	13.8	17.9	1	21	55	24		30	38
Mill Creek nr SLC	APR-JUL	2.3	3.3	1	4.2	60	5.2	6	. 8	7.0
Parley's Creek nr SLC	APR-JUL	3.5	6.4	1	8.9	53	11.8	16	. 8	16.7
Dell Fork nr SLC	APR-JUL	0.7	1.8	1	2.8	41	1 1 4.0	6	. 2	6.8
Emigration Creek nr SLC	APR-JUL	0.4	1.2	1	1.9	42	l 2.8	4	. 4	4.5
City Creek nr SLC	APR-JUL	2.9	4.3	1	5.5	63	6.8	8	. 9	8.7
Vernon Creek nr Vernon	APR-JUL	0.2	0.5	1	0.8	52	1.1	1	. 7	1.5
Settlement Creek Abv Resv Nr Tooele	APR-JUL	0.2	0.6	1	0.9	45	1.4	2	. 3	2.1
South Willow Creek nr Grantsville	APR-JUL	1.3	1.9	 	2.4	74	2.9	3	. 8	3.2
UTAH LAKE, JORDAN F Reservoir Storage (1000	IVER & TOOR	LE VALLEY	Y	1	¥	UTAH LAKE, Vatershed Sr	JORDAN RIV	ER & TOO lysis -	ELE VAL	LEY y 1, 2007
Reservoir	Usable Capacity	*** Usab This Year	le Storage * Last Year A	** lvg	Waters	shed	Nu	mber of Sites	This Y	ear as % of
DEER CREEK	149.7	141.0		4.8		RIVER & UTA		7	40	50
GRANTSVILLE	3.3	2.4	2.2	1.8	PROVO	RIVER		4	38	50
SETTLEMENT CREEK	1.0	0.8	0.8	0.6	JORDAN	N RIVER & GR	REAT SALT	6	43	60

0.5

1105.9 928.0 837.6 642.2 | TOOELE VALLEY WATERSHEDS 3

832.0 790.9 | UTAH LAKE, JORDAN RIVER & 16

63

44

67

57

870.9 893.0

0.6 0.6

STRAWBERRY-ENLARGED

The average is computed for the 1971-2000 base period.

UTAH LAKE

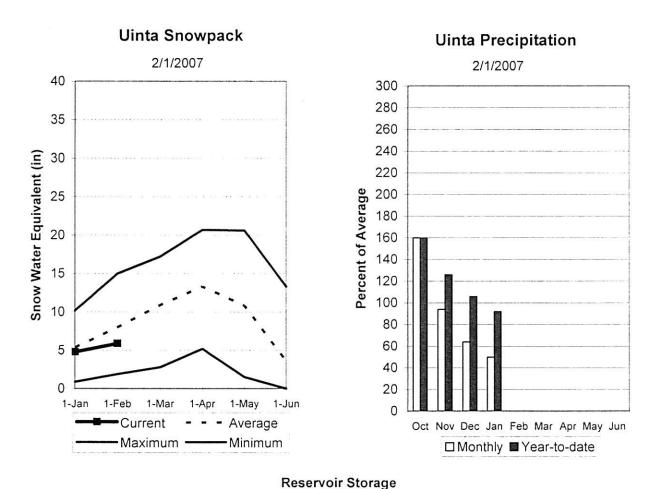
VERNON CREEK

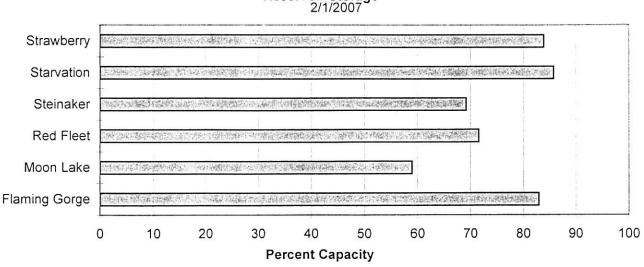
 $[\]star$ 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

Uintah Basin and Dagget SCD's February 1, 2007

Snowpack across the Uintah Basin and North Slope areas is below average at 75%, which is 67% of last year. The North Slope ranges from 81% to 120% and the Uintah Basin ranges from 49% to 95% of average. Precipitation during January was much below average at 50% bringing the seasonal accumulation (Oct-Jan) to 92% of average. Soil moisture values in runoff producing areas are at 39% of saturation in the upper 2 feet of soil compared to 33% last year. Reservoir storage is at 84% of capacity, 6% more than last year. Streamflow forecasts range from 55% to 86% of average. The Surface Water Supply Index for the western area is 68% and for the eastern area it is 38% indicating above normal conditions on the west side and below normal for the eastern area. General water supply conditions range from above to below average from west to east with the excellent reservoir carryover.





UINTAH BASIN & DAGGET SCD'S

		Streamflo	W Forecas	ts - Fel	oruary 1,						
					Future Conditions ====== Wetter ====>>					1	
Forecast Point	Forecast Period	90% (1000AF)	70% (1000AF))	50 (1000AF)	(% AVG.)	30% (1000A	10 F) (100	0AF)	30-Yr Avg. (1000AF)	
Blacks Fork nr Robertson	APR-JUL	53	68	! !	79	83	91		11	95	
EF of Smiths Fork nr Robertson	APR-JUL	14.6	19.9	!	24	83	29		36	29	
Flaming Gorge Reservoir Inflow (2)	APR-JUL	401	596	į	750	63	922	12	07	1190	
Big Brush Ck abv Red Fleet Resv	APR-JUL	10.1	14.5		18.0	86	22		28	21	
Ashley Creek nr Vernal	APR-JUL	25	35	1	43	83	52		66	52	
WF Duchesne River nr Hanna (2)	APR-JUL	8.9	12.3		15.0	63	17.9		23	24	
Duchesne R nr Tabiona (2)	APR-JUL	39	54	i	66	63	79	1	00	105	
Upper Stillwater Resv Inflow	APR-JUL	45	57	1	65	79	74		88	82	
Rock Ck nr Mountain Home (2)	APR-JUL	48	61	-	70	79	80		96	89	
Duchesne R abv Knight Diversion (2)	APR-JUL	82	109	-	130	69	152	1	88	188	
Strawberry R nr Soldier Springs (2)	APR-JUL	15.7	27	!	36	61	47		65	59	
Currant Creek Reservoir Inflow (2)	APR-JUL	4.8	10.7	l	16.0	64	22		34	25	
Strawberry R nr Duchesne (2)	APR-JUL	28	49		66	55	86	1	21	121	
Lake Fork River Moon Lake Inflow	APR-JUL	38	48	i	55	81	63		75	68	
Yellowstone River nr Altonah	APR-JUL	31	41	ļ	49	79	58		71	62	
Duchesne R at Myton (2)	APR-JUL	55	111	į	160	62	218	3	19	260	
Whiterocks near Whiterocks	APR-JUL	27	38	-	46	82	55		71	56	
Duchesne R nr Randlett (2)	APR-JUL	70	139	į	200	62	272	3	97	324	
UINTAH BASIN Reservoir Storage (1000	& DAGGET S AF) - End	CD'S of Januar	-Y		l I	UINTA Watershed Sr	H BASIN & lowpack Ana	DAGGET S lysis -	CD'S February	1, 2007	
	Usable	*** Usab	ole Storage		I		Nu	mber	This Ye	ear as % of	
Reservoir	Capacity!	Year	Last Year	Avg	Water		Data	of Sites	Last Y		
FLAMING GORGE	3749.0	3110.0		2966.0	I I I I I I I I I I I I I I I I I I I	GREEN RIVER		6	94	87	
MOON LAKE	49.5	29.2	30.2	27.9	 ASHLE	Y CREEK		2	122	79	
RED FLEET	25.7	18.4	21.4	18.0	 BLACK	's FORK RIVE	ir.	2	71	82	
STEINAKER	33.4	23.1	29.5	21.6	SHEEP	CREEK		1	163	100	

	Usable					Number	This Ye	ar as * or
Reservoir	Capacity!	This	Last		Watershed	of	220222	
	1	Year	Year	Avg	Da	ta Sites	Last Yr	Average
FLAMING GORGE	3749.0	3110.0	3054.0	2966.0	UPPER GREEN RIVER in UTAH	6	94	87
					ĺ			
MOON LAKE	49.5	29.2	30.2	27.9	ASHLEY CREEK	2	122	79
					ĺ			
RED FLEET	25.7	18.4	21.4	18.0	BLACK'S FORK RIVER	2	71	82
					I			
STEINAKER	33.4	23.1	29.5	21.6	SHEEP CREEK	1	163	100
					I			
STARVATION	165.3	141.8	137.1	132.3	DUCHESNE RIVER	11	59	70
					l .			
STRAWBERRY-ENLARGED	1105.9	928.0	837.6	642.2	LAKE FORK-YELLOWSTONE CRE	4	61	75
					1			
					STRAWBERRY RIVER	4	47	59
					UINTAH-WHITEROCKS RIVERS	2	92	84
					1			
					UINTAH BASIN & DAGGET SCD	17	67	75
					I			

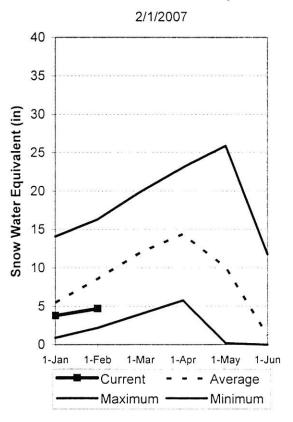
^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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 The value is natural volume - actual volume may be affected by upstream water management.

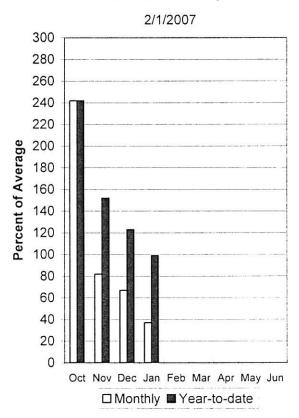
Carbon, Emery, Wayne, Grand and San Juan Co. February 1, 2007

Snowpacks in this region are much below normal at 54% of average, about 56% of last year. Individual sites range from 34% to 108% of average, with the Abajo Mountains the driest in the region. It would require 167% of average February – March snowpack increase to reach an average April 1st value. The probability of reaching or exceeding average April 1 snowpack conditions are 6%. Precipitation during January was much below average at 37%, bringing the seasonal accumulation (Oct-Jan) to 99% of normal. Soil moisture estimates in runoff producing areas are at 49% of saturation in the upper 2 feet of soil compared to 34% last year and down 2% from last month. Forecast streamflows range from 26% to 89% of average. Reservoir storage is at 64% of capacity, down 5% from last year. Surface Water Supply Indices for the area are: Price 52%, San Rafael area 47% and Moab 39%. General runoff and water supply conditions are near to below normal.

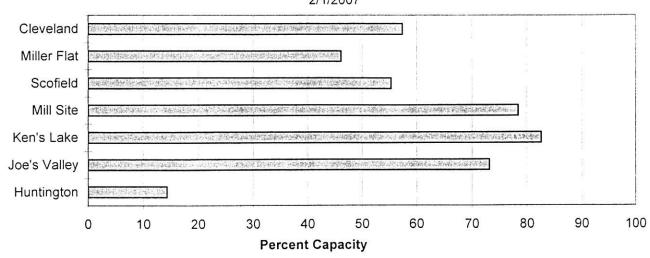
Southeast Utah Snowpack



Southeast Utah Precipitation



Reservoir Storage 2/1/2007



CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co. Streamflow Forecasts - February 1, 2007

		<<=====	Drier =====	Wetter	= Wetter ====>>			
Forecast Point	Forecast Period	90% (1000AF)	70% (1000AF)	50 (1000AF)	% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg (1000AF)
Gooseberry Creek nr Scofield	APR-JUL	4.3	6.3	7.8	66	9.5	12.3	11.9
Price River near Scofield Reservoir	APR-JUL	8.3	21	30	67	39	52	45
White River blw Tabbyune Creek	APR-JUL	3.3	6.1	8.6	50	11.5	16.5	17.3
Green River at Green River, UT (2)	APR-JUL	725	1540	2100	66	2660	3480	3170
Huntington Ck Inflow to Electric Lk	APR-JUL	4.7	7.7	10.2	65	1 13.0	17.7	15.7
Huntington Ck nr Huntington	APR-JUL	12.1	25	34	69	1 43	56	49
Joe's Valley Resv Inflow	APR-JUL	23	32	40	69	1 1 48	62	58
Ferron Ck (Upper Station) nr Ferron	APR-JUL	16.8	23	28	72	l 1 33	42	39
Colorado River Near Cisco (2)	APR-JUL	1710	3070	4000	86	l 4930	6290	4650
Mill Creek at Sheley Tunnel nr Moab	APR-JUL	1.7	2.5	3.1	62	1 1 3.8	5.1	5.0
Seven Mile Ck nr Fish Lake	APR-JUL	3.4	4.8	5.8	83	I I 7.0	8.8	7.0
fuddy Creek nr Emery	APR-JUL	8.5	12.2	15.0	75	 18.1	23	19.9
North Ck ab R.S. nr Monticello	MAR-JUL	0.0	0.0	0.1	10	l l 0.1	0.3	0.8
South Ck ab Lloyd's Res nr Monticell	MAR-JUL	0.1	0.2	0.3	23	l I 0.5	1.0	1.4
Recapture Ck Bl Johnson Ck nr Blandi	MAR-JUL	0.3	0.8	1.4	28	l l 2.3	4.1	5.0
San Juan River near Bluff (2)	APR-JUL	440	810	1060	86	l 1310	1680	1230

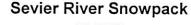
Reservoir Storage (100		i	Watershed Snowpack Analysis - February 1, 2007					
Reservoir	The state of the s		le Storage Last Year	*** Avg	Watershed	Number of Data Sites	This Year as % or Last Yr Average	
HUNTINGTON NORTH	4.2	0.6	3.1	2.8	PRICE RIVER	3	39	44
JOE'S VALLEY	61.6	45.1	44.3	41.2	SAN RAFAEL RIVER	3	50	59
KEN'S LAKE	2.3	2.0	2.1	1.1	MUDDY CREEK	1	38	49
MILL SITE	16.7	13.1	9.2	78.8	FREMONT RIVER	3	103	71
SCOFIELD	65.8	36.4	44.8	33.8	LASAL MOUNTAINS	1	75	65
				!	BLUE MOUNTAINS	1	111	34
				į	WILLOW CREEK	1	178	65
				- 1	CARBON, EMERY, WAYNE, G	GRA 13	56	54

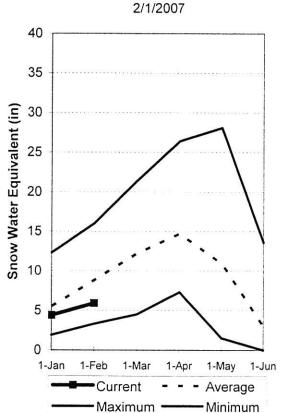
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 The value is natural volume - actual volume may be affected by upstream water management.

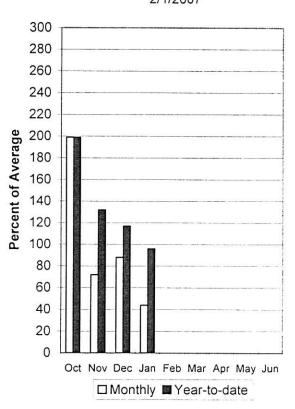
Sevier and Beaver River Basins Feb 1, 2007

Snowpacks on the Sevier River Basin are much below normal at 67% of average, about 78% of last year and down 13% relative to last month. Individual sites range from 38% to 89% of average. The Sevier River has a 19% chance at getting back to average snowpack this season. Precipitation during January was much below average at 44% of normal, bringing the seasonal accumulation (Oct-Jan) to 96% of average. Soil moisture estimates in runoff producing areas are at 44% of saturation (Sevier) in the upper 2 feet of soil compared to 42% last year. Streamflow forecasts range from 24% to 67% of average. Reservoir storage is at 71% of capacity, 14% less than last year. Surface Water Supply Indices are: Upper Sevier 60%, Lower Sevier 45% and Beaver 44%. Water supply conditions are near average due to reservoir storage but with poor streamflow expected

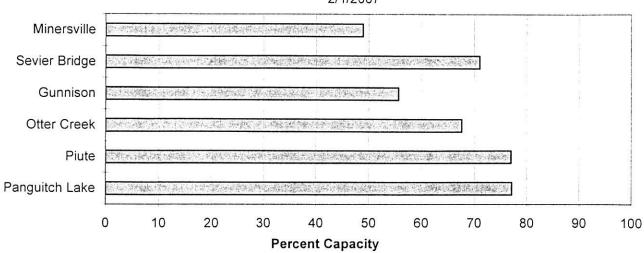




Sevier River Precipitation 2/1/2007



Reservoir Storage 2/1/2007



SEVIER & BEAVER RIVER BASINS Streamflow Forecasts - February 1, 2007

		<<====================================	Drier ===)	Puture Co	nditions =	===== Wette	er ====>>	
Forecast Point	Forecast Period	90% (1000AF)	70% (1000AF)	1	50 (1000AF)	(% AVG.)	M/ M/ //	10% (1000AF)	1 15 15
Sevier River at Hatch	APR-JUL	18.8	28	! !	36	66	45	59	55
Sevier River nr Kingston	APR-JUL	35	49	1	60	67	l 72	92	89
F Sevier R nr Kingston	APR-JUL	7.7	16.8	1	25	66	l 35	52	38
evier R blw Piute Dam	APR-JUL	35	58	İ	76	60	l l 97	133	126
lear Creek Abv Diversions Nr Sevier	APR-JUL	5.8	10.3	ĺ	14.0	64	1 18.3	26	22
alina Creek at Salina	APR-JUL	1.3	5.3	İ	9.7	49	1 15.4	26	19.7
anti Ck Blw Dugway Ck Nr Manti	APR-JUL	7.7	11.1	i	13.8	75	16.8	22	18.3
evier R nr Gunnison	APR-JUL	89	126	į	155	55	187	238	280
hicken Creek nr Levan	APR-JUL	0.1	0.9	į	1.8	40	3.0	5.3	4.5
ak Creek nr Oak City	APR-JUL	0.3	0.6	1	1.0	58	1.4	2.1	1.7
eaver River nr Beaver	APR-JUL	7.4	12.7	1	17.1	63	22	31	27
inersville Reservoir inflow	APR-JUL	0.3	1.9		4.0	24	6.8	12.2	16.6
SEVIER & BEAVE Reservoir Storage (1000	R RIVER BAS AF) - End	SINS of January				SEVIE Watershed Si	R & BEAVER RI nowpack Analy	IVER BASINS ysis - Februa	ry 1, 2007
Reservoir	Usable Capacity	*** Usabl This Year	e Storage Last Year	*** Avg	Water	shed	Numb of Data S	er This	Year as % of
UNNISON	20.3	11.3		13.1		SEVIER RIV			69
INERSVILLE (RkyFd)	23.3	11.4	19.8	14.4	EAST	FORK SEVIER	RIVER 3	104	68
TTER CREEK	52.5	35.5	45.0	36.5	SOUTH	FORK SEVIE	R RIVER 5	100	69
IUTE	71.8	55.3	57.7	49.5	LOWER	SEVIER RIVE	ER (inclu 6	67	70

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table. The average is computed for the 1971-2000 base period.

22.3 17.2 18.0 131.4 | SEVIER & BEAVER RIVER BAS 16

2

67

57

67

236.0 167.7 208.1 159.6 BEAVER RIVER

SEVIER BRIDGE

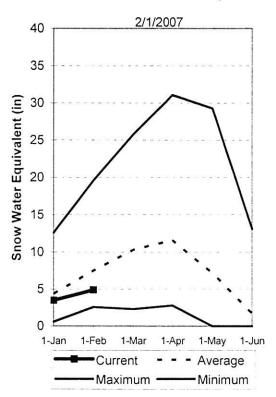
PANGUITCH LAKE

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels. (2) - The value is natural volume - actual volume may be affected by upstream water management.

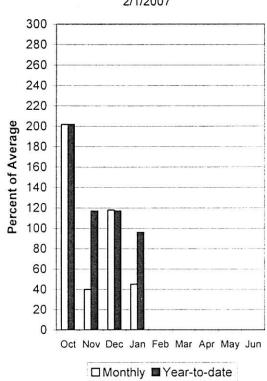
E. Garfield, Kane, Washington, & Iron Co. February 1, 2007

Snowpacks in this region are much below normal at 65% of average, about 121% of last year and down 15% relative to last month. These watersheds have a 33% chance of reaching average snowpack this season. Individual sites range from 31% to 108% of average. Precipitation in the month of January was much below average at 45%, bringing the seasonal accumulation (Oct-Jan) to 96% of average. Soil moisture estimates in runoff producing areas are at 31% of saturation in the upper 2 feet of soil compared to 27% last year. Forecast streamflows range from 49% to 59% of average. Reservoir storage is at 77% of capacity, 10% less than last year. The Surface Water Supply Index is at 50%, indicating average water supply conditions.

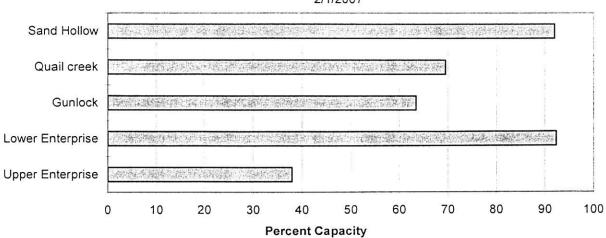
Southwest Utah Snowpack



Southwest Utah Precipitation 2/1/2007



Reservoir Storage 2/1/2007



E. GARFIELD, KANE, WASHINGTON, & IRON Co. Streamflow Forecasts - February 1, 2007

Forecast Point	Forecast Period	I	70% (1000AF)	== Chan	ce Of 1	Exceeding * == 0% (% AVG.)		====>> 10% (1000AF)	30-Yr Avg. (1000AF)
Lake Powell Inflow (2)	APR-JUL	2760	4630		5900	74	7170	9040	7930
Virgin River at Virgin	APR-JUL	19.2	28	İ	38	59	50	69	64
Virgin River near Hurricane	APR-JUL	13.8	24	!	37	54	52	80	69
Santa Clara River nr Pine Valley	APR-JUL	0.8	2.0	ļ	3.1	56	4.5	6.9	5.5
Coal Creek nr Cedar City	APR-JUL	6.8	10.6		13.7	71	17.2	23	19.3
E. GARFIELD, KANE, Reservoir Storage (10			**********	1		E. GARFIELD, Watershed Sno			
Reservoir	Usable Capacity	*** Usabl This Year	e Storage Last Year	*** 	Water	rshed	Numbe of Data Si		ear as % of

				HURNAN				
Reservoir	Usable Capacity	Capacity This Last Year Year		1	Watershed	Number of		r as % of
				Avg	Da	ta Sites	Last Yr	Average
GUNLOCK	10.4	6.6	10.4	5.7	VIRGIN RIVER	5	111	65
LAKE POWELL	24322.0	11734.0	11222.0	[PAROWAN	2	92	72
QUAIL CREEK	40.0	27.8	35.3	26.5	ENTERPRISE TO NEW HARMONY	2	176	49
UPPER ENTERPRISE	10.0	3.8	9.0		COAL CREEK	2	99	70
LOWER ENTERPRISE	2.6	2.4	0.0	38.0	ESCALANTE RIVER	2	134	77
				1	E. GARFIELD, KANE, WASHIN	9	119	65

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

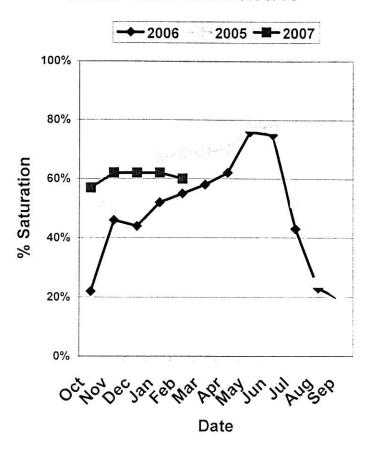
The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
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Watershed Soil Moisture Charts for Utah Water Supply

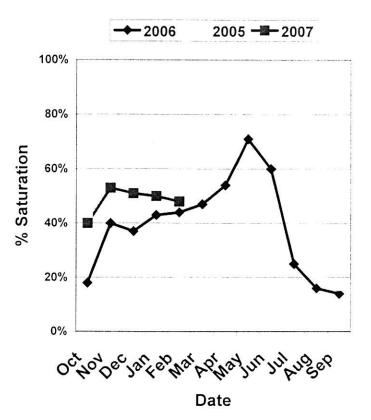
Bear River Soil Moisture

2006 2005 — 2007 80% 60% 20% 0% Ochobec safee hake habet a fur sukude e Pate Date

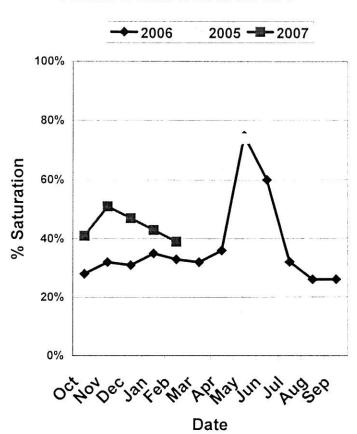
Weber River Soil Moisture



Jordan/Provo River Soil Moisture



Uintah Basin Soil Moisture



UTAH			
SURFACE	WATER	SUPPLY	INDEX
Snow Surveys	NRCS	USDA	
Basin or Region	SWSI/%	Percentile	Years with
1-Feb-07			Similar SWSI
Bear River	-2.43	21%	95,02,06,90
Ogden River	-2.03	26%	04,02,00,91
Weber River	-3.15	12%	95,02,06,90
Provo	-0.17	48%	78,88,79,00
West Uintah Basin	1.50	68%	96,86,05,06
East Uintah Basin	-1.01	38%	88,92,80,82
Price River	0.17	52%	73,99,87,70
San Rafael	-0.23	47%	99,87,00,74
Moab	-0.89	39%	99,96,82,91
Upper Sevier River	0.80	60%	70,81,97,06
Lower Sevier River	-0.43	45%	68,76,89,71
Beaver River	-0.52	44%	75,62,67,71
Virgin River	0.00	50%	86,87,99,01
Snow Surveys			SWSI Scale: -4 to 4 Percentile: 0 -
245 N Jimmy Doolittle Ro Salt Lake City, UT (801) 524-5213	I		100%

What is a Surface Water Supply Index?

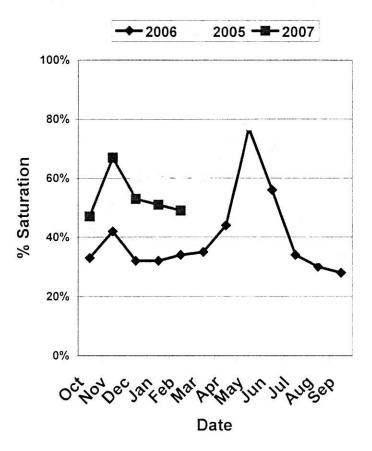
The Surface Water Supply Index (SWSI) is a predictive indicator of total surface water availability within a watershed for the spring and summer water use seasons. The index is calculated by combining pre-runoff reservoir storage (carryover) with forecasts of spring and summer streamflow which are based on current snowpack and other hydrologic variables. SWSI values are scaled from +4.1 (abundant supply) to -4.1 (extremely dry) with a value of zero (0) indicating median water supply as compared to historical analysis. SWSI's are calculated in this fashion to be consistent with other hydroclimatic indicators such as the Palmer Drought Index and the Precipitation index.

Utah Snow Surveys has also chosen to display the SWSI as a PERCENT CHANCE OF NON-EXCEEDANCE. While this is a very cumbersome name, it has the simplest application. It can be best thought of as a simple scale of 1 to 99 with 1 being the drought of record (driest possible conditions) and 99 being the flood of record (wettest possible conditions) and a value of 50 representing average conditions. This rating scale is a percentile rating as well, for example a SWSI of 75% means that this years water supply is greater than 75% of all historical events and that only 25% of the time has it been exceeded. Conversely a SWSI of 10% means that 90% of historical events have been greater than this one and that only 10% have had less total water supply. This scale is far more intuitive for most people and is totally comparable between basins: a SWSI of 50% means the same relative ranking on watershed A as it does on watershed B, which may not be strictly true of the +4 to -4 scale.

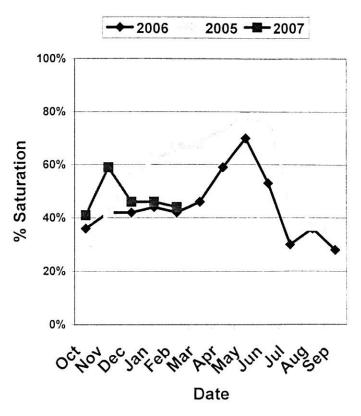
For more information on the SWSI go to: $\frac{www.ut.nrcs.usda.gov/snow/}{}$ on the water supply page. The entire period of historical record for reservoir storage and streamflow is available.

Watershed Soil Moisture Charts for Utah Water Supply

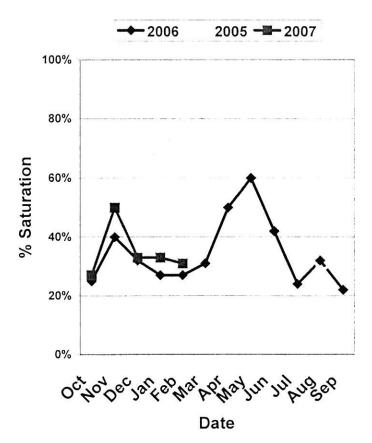
South East Utah Soil Moisture



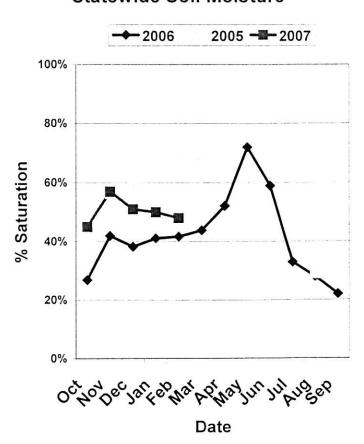
Sevier/Beaver River Soil Moisture



Southwest Utah Soil Moisture



Statewide Soil Moisture



SNOW COURSE DATA

FEBRUARY 2007

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	CONTENT	YEAR	AVERAGE 71-00
AGUA CANYON SNOTEL	8900	2/01	17			5.4
AGUA CANYON SNOTEL ALTA CENTRAL	8800	2/01	49	12.2	34.8	24.7
BEAVER DAMS SNOTEL	8000	2/01	23	3 9	8 4	7 0
BEAVER DIVIDE SNOTEL			23	3.9	11 2	7 0
BEN LOMOND PK SNOTEL	8000	2/01	32	10.2	33.4	25.0 14.4
BEN LOMOND TR SNOTEL	6000	2/01	22	5.4	18.3	14.4
BEVAN'S CABIN	6450				-	-
BIG FLAT SNOTEL			34	7.4	9.9	
BIRCH CROSSING	8100				· -	4.6
BLACK FLAT-U.M. CK S		2/01	19	3.5		5.9
	9340				-	5.8
BLACK'S FORK JUNCTN					_=_	5.9
	9800	2/01	28	6.2	7.5	
BRIAN HEAD	10000 8750	0 /01	25	0 5	-	11.8
BRIGHTON SNOTEL				9.5		15.9
BRIGHTON CABIN BROWN DUCK SNOTEL	8700	1/30	40	10.7 8.5	23.3	17.5
BRYCE CANYON	8000	2/01	40	8.5	-	3.6
BUCK FLAT SNOTEL	9800	2/01	27	6.1		3.0
BUCK PASTURE	9700	2/01	21	0.1	-	-
		1/23	26	5.0		
BUCKBOARD FLAT BUG LAKE SNOTEL	7950	2/01	33	5.8 7.5	3.6 18.0	13 2
BURT'S-MILLER RANCH		2/01	33	7.5	-	3.8
CAMP JACKSON SNOTEL	8600	2/01	25	3 1		9.0
CASCADE MOUNTAIN SNO	7770	2/01	25	3.1 6.0	14.0	
CASTLE VALLEY SNOTEL	9580	2/01	27	4.6	6 1	7 7
CHALK CK #1 SNOTEL		2/01 2/01 2/01	47	12.0	19.6	7.7 15.3
CHALK CK #2 SNOTEL		2/01	38	8.6	10.3	9.9
CHALK CREEK #3	7500	1004-00000			-	5.6
CHEPETA SNOTEL	10300	2/01	35	7.4	7.8	
CLAYTON SPRINGS SNTL	10000	2/01		5.5	4.7	-
CLEAR CK RIDG #1 SNT	9200	2/01	26	5.3	14.8	12.3
CLEAR CK RIDG #2 SNT	8000	2/01	29	5.4	10.4	9.4
CORRAL	8200				_	
CURRANT CREEK SNOTEL		2/01 2/01	18	4.1	9.4 15.9	6.8 11.1
DANIELS-STRAWBERRY S		2/01		6.0		
DILL'S CAMP SNOTEL		2/01	24	4.1	10.9	8.4
DONKEY RESERVOIR SNO		2/01 2/01	29	5.5	3.5	5.1
DRY BREAD POND SNTL		2/01	37	8.1	16.9	
DRY FORK SNOTEL		2/01 2/01 2/01 2/01 2/01	34	7.6	10.4	10.1
EAST WILLOW CREEK SN FARMINGTON U. SNOTEL		2/01	40	3.4	1.8	4.9
FARMINGTON L. SNOTEL		2/01	48	7.0	31.4 17.7	20.3
FARMINGTON L. SNOTEL		2/01	47	10.3	9.8	11.4
FISH LAKE	8700	2/01	4/	10.2	-	5.1
FIVE POINTS LAKE SNO		2/01	32	8.2	12 6	9.8
G.B.R.C. HEADQUARTER		2,02		0.2	-	-
G.B.R.C. MEADOWS					-	14.5
GARDEN CITY SUMMIT	7600				_	11.1
GARDNER PEAK SNOTEL		2/01	19	4.2	4.2	_
GEORGE CREEK	8840				-	-
GOOSEBERRY R.S.	8400				-	7.5
GOOSEBERRY R.S. SNTL	7900	2/01	24	4.5	6.5	5.8
GUTZ PEAK SNOTEL	6820	2/01	10	2.7	1.5	=
HARDSCRABBLE SNOTEL	7250	2/01	30	7.7	19.6	10.9
HARRIS FLAT SNOTEL	7700	2/01	6	1.8	1.4	4.7
HAYDEN FORK SNOTEL	9100	2/01	29	6.3	14.8	9.8
HENRY'S FORK	10000			6 <u>00</u> 80		
HEWINTA SNOTEL	9500	2/01	30	5.4	7.9	6.7
HICKERSON PARK SNTL		2/01	29	4.4	2.7	4.4
HIDDEN SPRINGS	5500	1/30	9	2.3	5.9	5.5
HOBBLE CREEK SUMMIT		2/01	0.0	4.0	- 5.0	9.6
HOLE-IN-ROCK SNOTEL		2/01	29	4.9 8.6	21.5	4.1
HORSE RIDGE SNOTEL HUNTINGTON-HORSESHOE	8260	2/01	30	0.0	-	15.1 15.1
INDIAN CANYON SNOTEL		2/01	25	5.7	6.2	6.9
JOHNSON VALLEY	8850	2,01	23	J. 1	-	4.6
JONES CORRAL G.S.	9720				_	-

SNOW COURSE	ELEV.		DEPTH	CONTENT	YEAR	71-00
KILFOIL CREEK	7300					
KILFOIL CREEK KILLYON CANYON KIMBERLY MINE SNOTEL KING'S CABIN SNOTEL	6300	1/30	14	2.6	9.0	11.5
KIMBERLY MINE SNOTEL	9300	2/01	32	7.2	7.4	9.4
KING'S CABIN SNOTEL	8730	2/01	25	4.4	4.1	6.8
KOLOB SNOTEL LAKEFORK #1 SNOTEL LAKEFORK BASIN SNTL	9250	2/01	34	7.6	6.7	12.1
LAKEFORK #1 SNOTEL	10100	2/01	25	5.6	7.1	7.9
LAKEFORK BASIN SNTL	10900	2/01	39	7.9	15.6	11.7
LAKEFORK MOUNTAIN #3	7400	1 /21	24	7 6	15.0	4.6
LAMBS CANYON LASAL MOUNTAIN LOWER	9900	1/31	34	7.0	4.0	5.9
LASAL MOUNTAIN LOWER LASAL MOUNTAIN SNTL LIGHTNING RIDGE SNTL LILY LAKE SNOTEL	9850	2/01	24	5 1	6.8	7.8
LIGHTNING RIDGE SNTL	8220	2/01	31	7.4	16.3	
LILY LAKE SNOTEL	9050	2/01	39	7.5	16.3 10.4	8.2
LITTLE BEAR LOWER LITTLE BEAR SNOTEL	6000				-	7.1
LITTLE BEAR SNOTEL	6550	2/01	21	4.8	11.4	9.1
LITTLE GRASSY SNOTEL	6100	2/01	4	1.5	. 0	4.9
LONG FLAT SNOTEL	8000	2/01	20	3.6	2.9	5.6
LONG VALLEY JCT. SNT	7500	2/01	12	3.2	2.0	4.4
LITTLE GRASSY SNOTEL LONG FLAT SNOTEL LONG VALLEY JCT. SNT LOOKOUT PEAK SNOTEL	8200	2/01	40	10.3	25.0	15.4
LOSI CREEK RESERVOIR	0130				_	3.0
LOUIS MEADOW SNOTEL MAMMOTH-COTTONWD SNT	6700	2/01	29	8.7	18.2	
MAMMOTH-COTTONWD SNT	8800	2/01	26	5.7	14.5	12.9
MERCHANT VALLEY SNTL	8750	2/01	23	3.7	6.7	8.2
MIDDLE CANYON MIDWAY VALLEY SNOTEL	0000	0/01	42	10.0	10 5	9.1
MILL CREEK	9800	1/31	43	7 -	10.5	13.9
MILL-D NODER CNOWER	8050	2/01	35	ν.5	14.5 22.6	15.0
MILL CREEK MILL-D NORTH SNOTEL MILL-D SOUTH FORK MINING FORK SNOTEL MONTE CRISTO SNOTEL MOSBY MTN. SNOTEL MT. BALDY R S.	7400	1/30	30	6.6	19 8	13.0
MINING FORK SNOTE	8000	2/01	31	8.0	19.8 13.8	9 3
MONTE CRISTO SNOTEL	8960	2/01	45	11 4	23.2	18.2
MOSBY MTN SNOTEL	9500	2/01	30	5.5	6.2	7.0
MT.BALDY R.S.	9500	-/			-	14.9
MUD CREEK #2	8600				-	8.6
OAK CREEK	7760				-	1 -
PANGUITCH LAKE R.S.	8200				=	=
PARLEY'S CANYON SNTL	7500	2/01	31	6.8	14.0	11.6
PARRISH CREEK SNOTEL PAYSON R.S. SNOTEL PICKLE KEG SNOTEL PINE CREEK SNOTEL RED PINE RIDGE SNTL	7740	2/01	38	10.4	19.3 11.9 12.5 11.0 12.5	15
PAYSON R.S. SNOTEL	8050	2/01	25	5.8	11.9	11.6
PICKLE KEG SNOTEL	9600	2/01	30	6.3	12.5	10.0
PINE CREEK SNOTEL	8800	2/01	40	11.2	11.0	12.9
RED PINE RIDGE SNTL	9200	2/01	27	6.0	12.5	10.5
REDDEN MINE LOWER	8500				-	10.8
REES'S FLAT	7300	0 /01			-	8.7
ROCK CREEK SNOTEL	7900	2/01	20	3.8	7.7	5.6
ROCKY BN-SETTLEMT SN SEELEY CREEK SNOTEL	10000	2/01	39	9.7 5.9	0.1	15.1
SMITH MOREHOUSE SNTL		2/01	30	6.8	14.4 9.1 11.1	9.0
SNOWBIRD SNOTEL		2/01	30 44	10.9	33.9	20.1
SPIRIT LAKE	10300	2/01		20.5	-	7.4
SQUAW SPRINGS	9300					4.6
STEEL CREEK PARK SNO		2/01	36	7.8	10.7	
STILLWATER CAMP	8550				-	6.5
STRAWBERRY DIVIDE SN	8400	2/01	28	5.8	14.1	
SUSC RANCH	8200				_	5.2
TALL POLES	8800				_	8.4
TEMPLE FORK SNOTEL					16.5	
THAYNES CANYON SNTL		2/01	45	10.2	19.5	
THISTLE FLAT	8500				-	-
TIMBERLINE	9100	0./55			-	-
TIMPANOGOS DIVIDE SN					18.6	
TONY GROVE LK SNOTEL		2/01	49	14.5	38.7	
TONY GROVE R.S. TRIAL LAKE	6250 9960				_	9.0 14.7
TRIAL LAKE SNOTEL		2/01	3/1	8.3	21.6	
TROUT CREEK SNOTEL	9400		27		4.0	
UPPER JOES VALLEY	8900			5.5	-	6.8
VERNON CREEK SNOTEL			21	3.5	5.7	7.1
VIPONT	7670				-	-
WEBSTER FLAT SNOTEL			28	5.8	6.3	9.8
WHITE RIVER #1 SNTL	8550	2/01	23	3.8	8.5	
WHITE BIVER #3	7400				-	5.8
WIDTSOE #3 SNOTEL	9500	2/01	25	3.9	2.9	
WRIGLEY CREEK	9000				-	6.7
YANKEE RESERVOIR	8700				-1	5.6



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Arlen Lancaster Chief Natural Resources Conservation Service U.S. Department of Agriculture

Prepared by

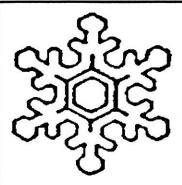
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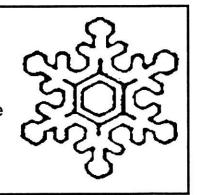
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Snow Survey, NRCS, USDA 245 North Jimmy Doolittle Road Salt Lake City, UT 84116 (801) 524-5213



Utah Water Supply Outlook Report

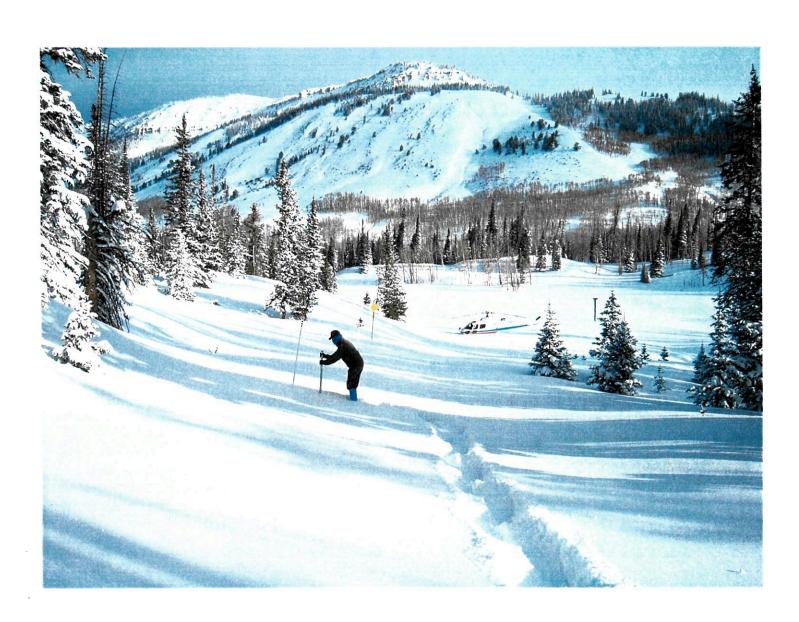
Natural Resources Conservation Service Salt Lake City, UT





Utah Water Supply Outlook Report

March, 2007



Mt Baldy Snow Course, February 2007, Central Utah, Wasatch Plateau. Photo by Brooke Nelson, NRCS, USDA.

Water Supply Outlook Reports and Federal - State - Private Cooperative Snow Surveys

For more water supply and resource management information, contact:

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How forecasts are made

Most of the annual streamflow in the western United States originates as snowfall that has accumulated in the mountains during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Measurements of snow water equivalent at selected manual snowcourses and automated SNOTEL sites, along with precipitation, antecedent streamflow, and indices of the El Niño / Southern Oscillation are used in computerized statistical and simulation models to prepare runoff forecasts. These forecasts are coordinated between hydrologists in the Natural Resources Conservation Service and the National Weather Service. Unless otherwise specified, all forecasts are for flows that would occur naturally without any upstream influences.

Forecasts of any kind, of course, are not perfect. Streamflow forecast uncertainty arises from three primary sources: (1) uncertain knowledge of future weather conditions, (2) uncertainty in the forecasting procedure, and (3) errors in the data. The forecast, therefore, must be interpreted not as a single value but rather as a range of values with specific probabilities of occurrence. The middle of the range is expressed by the 50% exceedance probability forecast, for which there is a 50% chance that the actual flow will be above, and a 50% chance that the actual flow will be below, this value. To describe the expected range around this 50% value, four other forecasts are provided, two smaller values (90% and 70% exceedance probability) and two larger values (30%, and 10% exceedance probability). For example, there is a 90% chance that the actual flow will be more than the 90% exceedance probability forecast. The others can be interpreted similarly.

The wider the spread among these values, the more uncertain the forecast. As the season progresses, forecasts become more accurate, primarily because a greater portion of the future weather conditions become known; this is reflected by a narrowing of the range around the 50% exceedance probability forecast. Users should take this uncertainty into consideration when making operational decisions by selecting forecasts corresponding to the level of risk they are willing to assume about the amount of water to be expected. If users anticipate receiving a lesser supply of water, or if they wish to increase their chances of having an adequate supply of water for their operations, they may want to base their decisions on the 90% or 70% exceedance probability forecasts, or something in between. On the other hand, if users are concerned about receiving too much water (for example, threat of flooding), they may want to base their decisions on the 30% or 10% exceedance probability forecasts, or something in between. Regardless of the forecast value users choose for operations, they should be prepared to deal with either more or less water. (Users should remember that even if the 90% exceedance probability forecast is used, there is still a 10% chance of receiving less than this amount.) By using the exceedance probability information, users can easily determine the chances of receiving more or less water.

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STATE OF UTAH GENERAL OUTLOOK Mar 1, 2007

SUMMARY

February was, thank goodness -not January. A return to some small sense of normalcy is quite welcome after the bitter cold and dry of that hopefully soon to be forgotten month. In northern Utah, there was near normal snowpack accumulation in the mountains. February accumulations that amount of snow that fell in February - ranged from 90% of average in the Uintahs to 106% of average on the Weber watershed. Southern Utah was not nearly as fortunate and received only 43% to 71% of average February accumulations. This was not nearly sufficient to bring snowpacks back to near normal conditions. What was needed was 140% to 170% of normal accumulation. This leaves us in the current position of having snowpacks that range from 59% of average in southwest Utah to 78% of average on the Uintahs. Most areas have between 60% and 75% of average snowpacks. Here are the dismal numbers - how much snow accumulation do we need in March to get to average by April 1: Bear River - 234%, Weber - 230%, Utah Lake - 245%, Uintahs - 201%, SE Utah - 303%, Sevier - 250%, SW Utah - 421% and statewide -243%. While those numbers are discouraging enough, we must consider the probability of getting between 200% and 400% of normal snow accumulation in March: Bear - 0%, Weber -0%, Utah Lake - 0%, Uintahs - 3%, SE Utah - 0%, Sevier - 8%, SW Utah - 14% and statewide -0%. While it is not likely that we are going to get back to average, given just average March accumulation would put the watersheds at: Bear - 77%, Weber - 77%, Utah Lake - 75%, Uintahs - 82%, SE Utah - 66%, Sevier - 75%, SW Utah - 75% and statewide - 76% by April 1, a little better than they are now. March needs to go big to take the sting out of this season. Soil moisture started the annual upswing this past month: Bear - 67%, Weber - 63%, Provo - 50%, Uintah Basin - 41%, southeast Utah - 48%, Sevier - 49%, southwest Utah - 45% and statewide - 50% of saturation. These values are a little higher than last year. In general, most areas of the state have excellent reservoir carryover. General water supply conditions range from below to much above average. Streamflow forecasts range from 16% to 86% of average. Surface Water Supply Indices range from 21% on the Bear River, to 79% on the west side of the Uintah Basin.

SNOWPACK

March first snowpacks as measured by the NRCS SNOTEL are as follows: Bear - 72%, Weber - 72%, Provo - 69%, Uintahs - 78%, southeast Utah - 60%, Sevier - 69%, southwest Utah - 59% and the statewide figure is 71% of average. Recent storms have brought snowpacks up 5% to 8% state wide and have put at least some snow back on south facing aspects and lower elevations. Utah needs between 200% and 400% of normal snowpack accumulation in March to reach average conditions. The probability of getting this accumulation ranges between 0 and 14% with most areas at 0%.

PRECIPITATION

Mountain precipitation during February was near normal in northern Utah (106%-110%) below to much below normal across southern Utah (60%-82%). This brings the seasonal accumulation (Oct-Feb) to 88% of average statewide and ranges from 83% on the Bear to 96% over southeastern Utah.

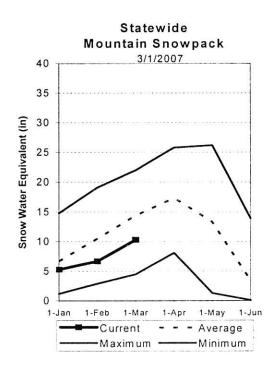
RESERVOIRS

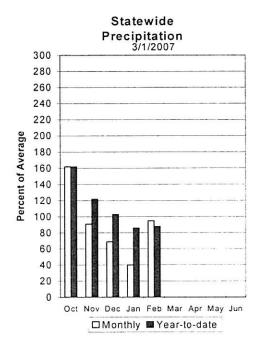
Storage in 41 of Utah's key irrigation reservoirs is at 71% of capacity up 3% from last month. This is also an increase of 3% from last year. Reservoirs across the State have been making

steady gains in storage. Bear Lake really is the last reservoir to remain in an extremely low condition due to the prolonged drought.

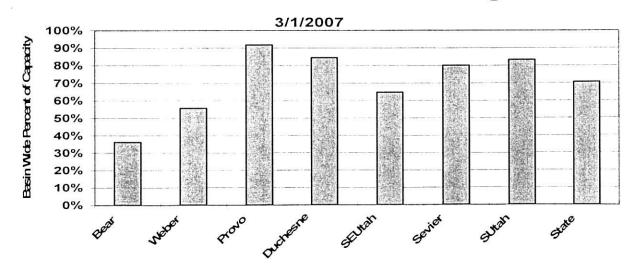
STREAMFLOW

Snowmelt streamflows are expected to have a wide range from much below average to near average across the state of Utah this year. Forecast streamflows range from 16% on North Creek nr Monticello to 86% of average for the Bear River nr State Line. Most flows are forecast to be in the 50% to 70% range.





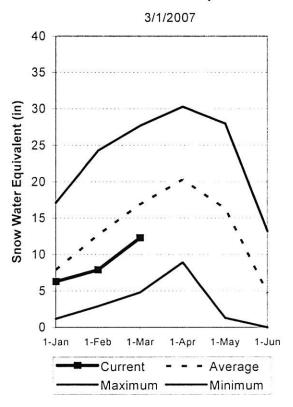
Statewide Basin Reservoir Storage



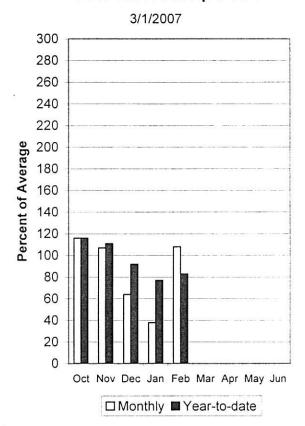
Bear River Basin March 1, 2007

Snowpacks on the Bear River Basin are below average at 73% of normal, about 59% of last year. Specific sites range from 56% to 113% of normal. February precipitation was average at 100%, which brings the seasonal accumulation (Oct-Feb) to 83% of average. Soil moisture levels in runoff producing areas are at 67% of saturation in the upper 2 feet of soil compared to 58% last year. This is due mainly to above average precipitation in October. Forecast streamflows range from much below average to below average (61%-86%) volumes this spring. Reservoir storage is low at 36% of capacity, 11% more than last year. The Surface Water Supply Index is at 21% for the Bear River, or 79% of years have had more total water available. Water supply conditions are much below normal due to low streamflow and reservoir storage. 234% of normal increase in March SWE is need for an average April 1st SWE.

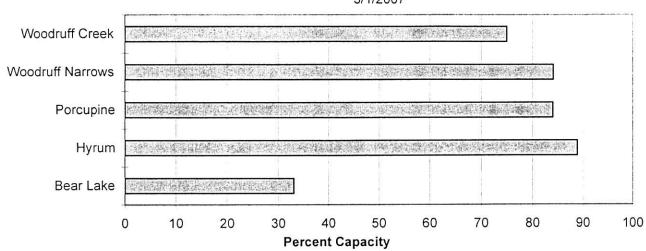
Bear River Snowpack



Bear River Precipitation



Reservoir Storage 3/1/2007



BEAR RIVER BASIN Streamflow Forecasts - March 1, 2007

Forecast Point	Forecast	I	Drier ====			Wetter		
prost 2 4404 . S. Succession	Period	90% (1000AF)	70% (1000AF))% [30% (1000AF)	10% (1000AF)	30-Yr Avg (1000AF)
Bear River nr UT-WY State Line	APR-JUL	70	86	97	86	109	128	113
Bear River ab Reservoir nr Woodruff	APR-JUL	52	81	1 105	77	132	176	136
Big Creek nr Randolph	APR-JUL	1.1	2.1	3.0	61	4.0	5.8	4.9
Smiths Fork nr Border	APR-JUL	47	60	1 70	68	81	98	103
Bear River at Stewart Dam	APR-JUL	70	116	154	66	197	270	234
Little Bear River at Paradise	APR-JUL	14.5	23	29	63	36	48	46
Logan R Abv State Dam Nr Logan	APR-JUL	50	69	l 85	68	102	130	126
Blacksmith Fk Abv Up&L Dam Nr Hyrum	APR-JUL	18.4	27	33	69	40	52	48

	AR RIVER BASIN			ļ.	BEAR RIVER BASIN								
Reservoir Storage	(1000 AF) - End	of Febru	ary	 	Watershed Snowpack Analysis - March 1, 2007								
Reservoir	Usable Capacity 	*** Usa This Year	ble Storaç Last Year	ge *** 	Watershed	Number of Data Sites	This Yea	r as % of Average					
BEAR LAKE	1302.0	430.6	290.3	!	BEAR RIVER, UPPER (abv	На 6	63	75					
HYRUM	15.3	13.6	10.4	11.0	BEAR RIVER, LOWER (blw	На 8	56	72					
PORCUPINE	11.3	9.5	9.7	5.6	LOGAN RIVER	4	52	71					
WOODRUFF NARROWS	57.3	48.2	35.0	27.6	RAFT RIVER	1	61	107					
WOODRUFF CREEK	4.0	3.0	3.5	1	BEAR RIVER BASIN	14	59	73					

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

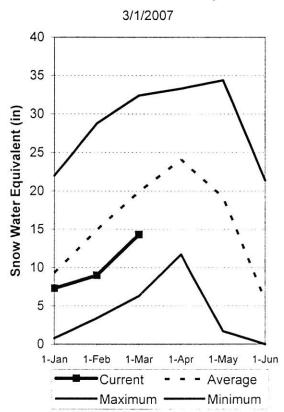
The average is computed for the 1971-2000 base period.

The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 The value is natural volume - actual volume may be affected by upstream water management.

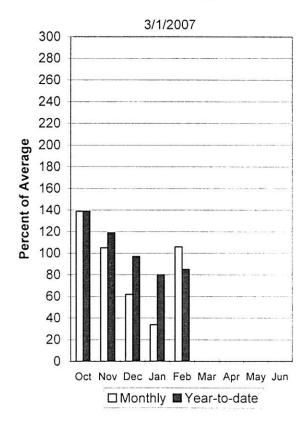
Weber and Ogden River Basins March 1, 2007

Snowpack on the Weber and Ogden Watersheds is below average at 72%, about 62% of last year. Individual sites range from 32% to 94% of average. February precipitation was average at 106% bringing the seasonal accumulation (Oct-Feb) to 85% of average. Soil moisture levels in runoff producing areas are at 63% of saturation in the upper 2 feet of soil compared to 54% last year. Streamflow forecasts range from 55% to 89% of average. Reservoir storage is at 56% of capacity, 18% lower than last year. The Surface Water Supply Index is at 27% for the Weber River and at 26% for the Ogden River. Overall water supply conditions are below normal with very little probability of reaching April 1st average snow water equivalent

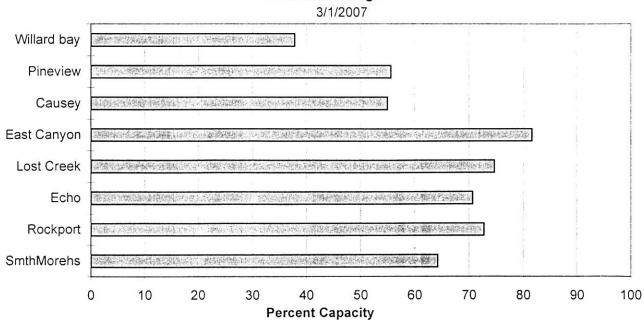
Weber River Snowpack



Weber River Precipitation



Reservoir Storage



WEBER & OGDEN WATERSHEDS in Utah Streamflow Forecasts - March 1, 2007

		Streamilow			ccn 1, 20			*******			
Forecast Point	 Forecast	*******			ance Of E	nditions xceeding					
	Period	90% (1000AF)	70% (1000AF)			(% AVG.)	i (1	30% 000AF)	10% (1000AF)	30-Yr Avg (1000AF	')
Smith & Morehouse Res inflow	APR-JUL	20	25	== ===: 	28	82	== ===== 	31	36	34	
Weber River nr Oakley	APR-JUL	70	88	1	100	81	!	112	130	123	3
Weber River nr Coalville	APR-JUL	88	97	!	103	75	ļ	109	119	137	1
Chalk Creek at Coalville	APR-JUL	21	32	- [40	89	į	49	65	45	,
Echo Reservoir inflow	APR-JUL	88	119	1	140	78	į	161	192	179	,
Lost Creek Reservoir inflow	APR-JUL	5.0	7.8	į	10.0	57	į	12.5	16.7	17.6	i
East Canyon Reservoir inflow	APR-JUL	12.3	17.7	į	22	71	į	27	35	31	60
Weber River at Gateway	APR-JUL	215	235	i	250	70	į	265	285	355	,
SF Ogden River nr Huntsville	APR-JUL	19.6	28	i	35	55	į	43	55	64	1
Pineview Reservoir inflow	APR-JUL	39	59	į	75	56	į	93	123	133	į.
Wheeler Creek nr Huntsville	APR-JUL	1.8	2.9	i	3.8	60	i	4.8	6.5	6.3	t
WEBER & OGDEN WA									DS in Utal		
Reservoir Storage (1000	A DESTRUCTION OF THE PROPERTY	Manager State of State of Control of State of St	-				NORW CONTRACTOR		s - March		
Reservoir	Usable Capacity	*** Usable	e Storage Last	***	 Water	shed		Number of	100000000000000000000000000000000000000	Year as % c	
	i	Year	Year	Avg	 			Data Sit			
CAUSEY	7.1	3.9	2.6	2.6		RIVER		4	56	60	
EAST CANYON	49.5	40.4	36.0	35.4	WEBER	RIVER		9	67	79	
ЕСНО	73.9	52.2	52.4	51.0	WEBER	& OGDEN	WATERSHED	s 13	63	72	
LOST CREEK	22.5	16.8	15.7	13.9							
PINEVIEW	110.1	61.2	54.7	52.6	lic lo						
ROCKPORT	60.9	44.3	41.3	33.2							

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

WILLARD BAY

81.3 194.2 154.9

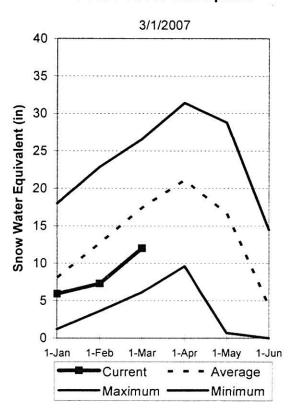
215.0

The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 The value is natural volume - actual volume may be affected by upstream water management.

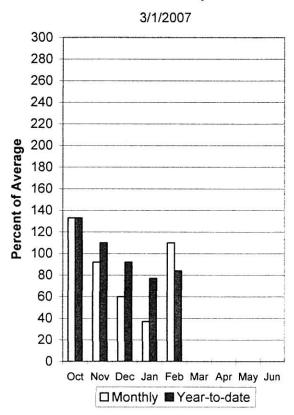
Utah Lake, Jordan River & Tooele Valley Basins March 1, 2007

Snowpack over these regions are much below average at 69%, which is 61% of last year and up 12% from last month. Individual sites range from 54% to 87% of average. February precipitation was above average at 110%, bringing the seasonal accumulation (Oct-Feb) to 84% of average. Soil moisture levels in runoff producing areas are at 50% of saturation in the upper 2 feet of soil compared to 47% last year. Reservoir storage is at 92% of capacity, 6% higher than last year. Streamflow forecasts range from 52% to 74% of average. The Surface Water Supply Index is at 56%, indicating general water supply conditions are near normal due to good reservoir carryover.

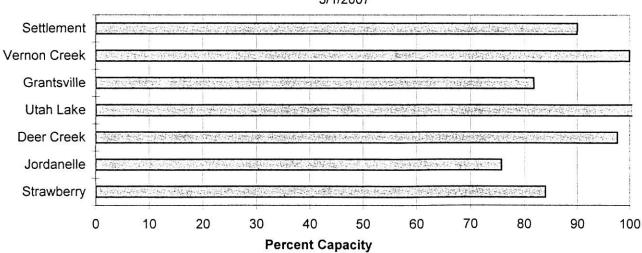
Provo River Snowpack



Provo River Precipitation



Reservoir Storage



UTAH LAKE, JORDAN RIVER & TOOELE VALLEY Streamflow Forecasts - March 1, 2007

		Streamflow							
Forecast Point	Forecast Period	l	70%	Ch.	Future Con ance Of En	nditions == xceeding * =	30% (1000AF)	10%	
Spanish Fork River nr Castilla	APR-JUL	14.7					62		
Provo River nr Woodland	APR-JUL	46	60	į	70	68	81	100	103
Provo River nr Hailstone	APR-JUL	46	61	Ì	72	66	84	104	109
Deer Creek Resv Inflow	APR-JUL	53	66	İ	75	60	85	101	126
American Fk Abv Upper Powerplant	APR-JUL	11.8	16.4	į	20	63	24	30	32
Utah Lake inflow	APR-JUL	103	140	į	169	52	200	250	325
West Canyon Ck Nr Cedar Fort	APR-JUL	0.6	1.1	İ	1.5	63	2.0	2.8	2.4
Little Cottonwood Ck nr SLC	APR-JUL	19.3	24	1	28	70	32	38	40
Big Cottonwood Ck nr SLC	APR-JUL	17.9	23	i I	26	68	30	36	38
Mill Creek nr SLC	APR-JUL	2.8	4.0	l I	4.9	70	5.9	7.6	7.0
Parley's Creek nr SLC	APR-JUL	4.9	8.2	I I	10.9	65 I	14.0	19.3	16.7
Dell Fork nr SLC	APR-JUL	1.4	2.7	1	3.8	56	5.1	7.4	6.8
Emigration Creek nr SLC	APR-JUL	0.7	1.6	l I	2.4	53 I	3.4	5.1	4.5
City Creek nr SLC	APR-JUL	3.3	4.9	-	6.1	70	7.5	9.7	8.7
Vernon Creek nr Vernon	APR-JUL	0.3	0.6	1	0.9	62	1.2	1.8	1.5
Settlement Creek Abv Resv Nr Tooele	APR-JUL	0.5	0.9	l I	1.3	62	1.7	2.4	2.1
South Willow Creek nr Grantsville	APR-JUL	1.4	1.9	ľ	2.4	74	2.9	3.7	3.2
UTAH LAKE, JORDAN F Reservoir Storage (1000	AF) - End	of Februar				Watershed Sr	JORDAN RIVER lowpack Analys	is - March	1, 2007
	Usable	*** Usabl	le Storage		I		Numbe	r This	Year as % of
Reservoir	Capacity	This Year	Last Year	Avg	·		of Data Si	tes Last	
DEER CREEK	149.7	146.2		107.4		RIVER & UTA		59	62
GRANTSVILLE	3.3	2.7	2.5	2.2	PROVO	RIVER	4	58	64
SETTLEMENT CREEK	1.0	0.9	0.9	0.6	I JORDAI	N RIVER & GF	REAT SALT 6	60	75
TRAWBERRY-ENLARGED	1105.9	928.5	838.1	537.8	TOOEL	E VALLEY WAT	TERSHEDS 3	81	71
JTAH LAKE	870.9	931.5	869.6	325.1	UTAH :	LAKE, JORDAN	RIVER & 16	62	69
					Į.				

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

VERNON CREEK

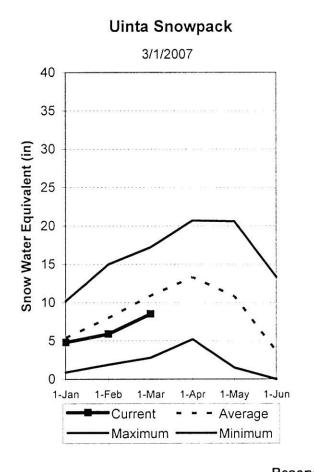
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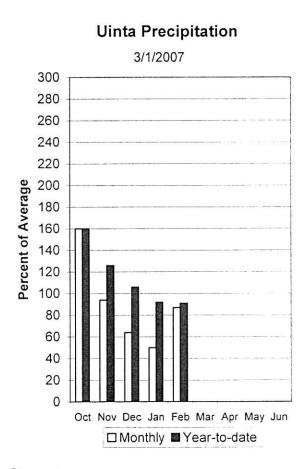
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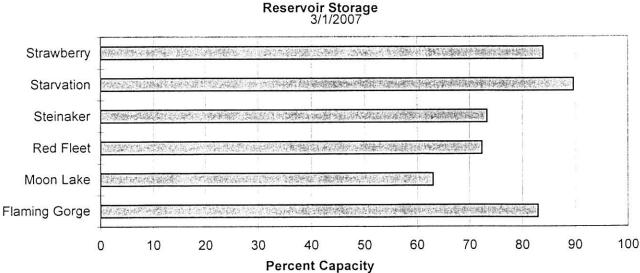
^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

Uintah Basin and Dagget SCD's March 1, 2007

Snowpack across the Uintah Basin and North Slope areas is below average at 78%, which is 77% of last year. The North Slope ranges from 69% to 110% and the South Slope ranges from 64% to 90% of average. Precipitation during February was below average at 87% bringing the seasonal accumulation (Oct-Feb) to 90% of average. Soil moisture values in runoff producing areas are at 41% of saturation in the upper 2 feet of soil compared to 32% last year. Reservoir storage is at 85% of capacity, 7% more than last year. Streamflow forecasts range from 52% to 84% of average. The Surface Water Supply Index for the western area is 79% and for the eastern area it is 45% indicating above normal conditions on the west side and near normal for the eastern area. General water supply conditions range from above to near average from west to east thanks to excellent reservoir carryover.







UINTAH BASIN & DAGGET SCD'S Streamflow Forecasts - March 1, 2007

<<===== Drier ====== Future Conditions ====== Wetter ====>> Forecast Point Forecast Chance Of Exceeding * 90% 70% 30% Period 10% 30-Yr Avg. 50% (% AVG.) (1000AF) (1000AF) (1000AF) (1000AF) (1000AF) (1000AF) Blacks Fork nr Robertson APR-JUL 51 65 76 88 95 80 106 EF of Smiths Fork nr Robertson APR-JUL 13.4 18.3 22 76 26 33 29 Flaming Gorge Reservoir Inflow (2) APR-JUL 382 565 710 60 872 1140 1190 Big Brush Ck abv Red Fleet Resv APR-JUL 10.1 14.3 17.6 84 21 27 21 Ashley Creek nr Vernal APR-JUL 26 35 42 81 50 62 52 WF Duchesne River nr Hanna (2) APR-JUL 8.8 12.3 15.0 63 18.0 23 24 Duchesne R nr Tabiona (2) APR-JUL 79 99 Upper Stillwater Resv Inflow APR-JUL 44 53 60 73 67 78 82 90 Rock Ck nr Mountain Home (2) APR-JUL 49 60 68 76 89 Duchesne R abv Knight Diversion (2) APR-JUL 87 112 130 69 150 181 188 Strawberry R nr Soldier Springs (2) APR-JUL 13.7 24 33 43 61 59 56 Currant Creek Reservoir Inflow (2) APR-JUL 10.2 15.0 60 21 31 25 113 121 Strawberry R nr Duchesne (2) APR-JUL 28 47 63 52 81 Lake Fork River Moon Lake Inflow APR-JUL 36 44 50 67 68 Yellowstone River nr Altonah APR-JUL 29 38 45 73 53 65 62 201 Duchesne R at Myton (2) 106 150 58 290 260 APR-JUL 56 Whiterocks near Whiterocks APR-JUL 36 44 79 53 67 56 324 Duchesne R nr Randlett (2) APR-JUL 65 126 180 56 243 353

UINTAH I Reservoir Storage	BASIN & DAGGET S (1000 AF) - End		uary		UINTAH BASIN & DAGGET SCD'S Watershed Snowpack Analysis - March 1, 200					
Reservoir	Usable Capacity		able Stora Last Year	age ***	Watershed	Number of ta Sites	This Yea	r as % of Average		
FLAMING GORGE	3749.0	3110.0	3034.0	2919.0	UPPER GREEN RIVER in UTAH	6	103	86		
MOON LAKE	49.5	31.2	30.7	29.8	ASHLEY CREEK	2	137	77		
RED FLEET	25.7	18.6	22.3	18.4	BLACK'S FORK RIVER	2	76	82		
STEINAKER	33.4	24.5	31.2	22.8	SHEEP CREEK	1	183	110		
STARVATION	165.3	148.3	137.8	135.9	DUCHESNE RIVER	11	70	74		
STRAWBERRY-ENLARGED	1105.9	928.5	838.1	637.8	LAKE FORK-YELLOWSTONE CRE	4	67	73		
					STRAWBERRY RIVER	4	63	70		
					UINTAH-WHITEROCKS RIVERS	2	102	88		
					UINTAH BASIN & DAGGET SCD	17	77	78		

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

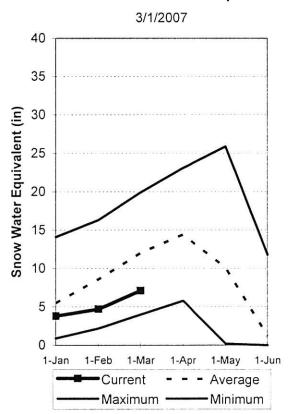
^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

^{(2) -} The value is natural volume - actual volume may be affected by upstream water management.

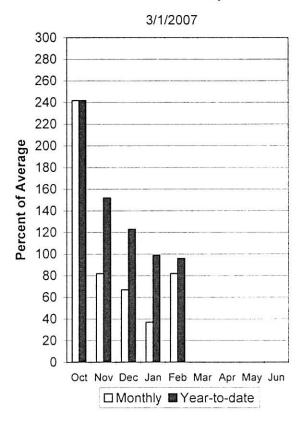
Carbon, Emery, Wayne, Grand and San Juan Co. March 1, 2007

Snowpacks in this region are much below normal at 60% of average, about 72% of last year. Individual sites range from 28% to 100% of average, with the Abajo Mountains the driest in the region. It would require an unprecedented 303% of average March snowpack increase to reach an average April 1st value. Precipitation during February was below average at 82%, bringing the seasonal accumulation (Oct-Feb) to 96% of normal. Soil moisture estimates in runoff producing areas are at 48% of saturation in the upper 2 feet of soil compared to 35% last year and up 1% from last month. Forecast streamflows range from 7% to 86% of average. Reservoir storage is at 65% of capacity, same as last year at this time. Surface Water Supply Indices for the area are: Price 36%, San Rafael area 39% and Moab 39%. General runoff and water supply conditions are below normal.

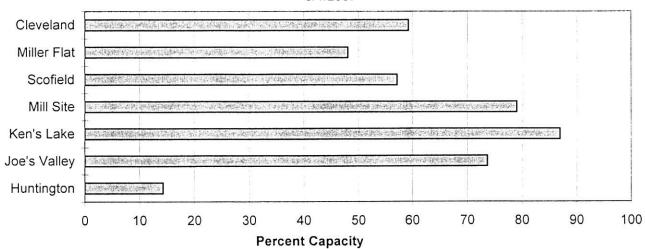
Southeast Utah Snowpack



Southeast Utah Precipitation



Reservoir Storage 3/1/2007



CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co. Streamflow Forecasts - March 1, 2007

	46000000000	<<====================================	Drier ==		Future Co	onditions =	Wet	ter ====	->>	******
Forecast Point	Forecast Period	90% (1000AF)	70% (1000AF)	1	50 (1000AF)	exceeding * = 0% (% AVG.)	30% (1000A	10	 % 0AF)	30-Yr Avg. (1000AF)
Gooseberry Creek nr Scofield	APR-JUL	4.6	6.3	! !	7.6	64	9.0	11	4	11.9
Price River near Scofield Reservoir	APR-JUL	3.5	16.3	-	25	56	34		46	45
White River blw Tabbyune Creek	APR-JUL	2.9	5.3	ļ	7.3	42	9.7	13	1.8	17.3
Green River at Green River, UT (2)	APR-JUL	760	1500	-	2000	63	2500	32	40	3170
Huntington Ck Inflow to Electric Lk	APR-JUL	3.6	5.8	1	7.5	48	9.5	12	. 7	15.7
Huntington Ck nr Huntington	APR-JUL	5.7	17.2	-	25	51	33		44	49
Joe's Valley Resv Inflow	APR-JUL	18.5	28		35	60	43		57	58
Ferron Ck (Upper Station) nr Ferron	APR-JUL	15.7	21	-	25	64	29		37	39
Colorado River Near Cisco (2)	APR-JUL	1770	3100	!	4000	86	4900	62	30	4650
Mill Creek at Sheley Tunnel nr Moab	APR-JUL	1.8	2.5	-	3.1	62	3.7	4	. 8	5.0
Seven Mile Ck nr Fish Lake	APR-JUL	2.9	4.1	-	5.1	73	6.2	7	. 9	7.0
Muddy Creek nr Emery	APR-JUL	7.6	10.7	1	13.0	65	15.6	19	. 8	19.9
North Ck ab R.S. nr Monticello	MAR-JUL	0.0	0.0	1	0.1	7	0.1	0	. 2	0.8
South Ck ab Lloyd's Res nr Monticell	MAR-JUL	0.1	0.2	1	0.3	20	0.5	0	.8	1.4
Recapture Ck Bl Johnson Ck nr Blandi	MAR-JUL	0.1	0.4	1	0.8	16	1.4	2	. 6	5.0
San Juan River near Bluff (2)	APR-JUL	385	715	1	940	76	1170	15	00	1230
CARBON, EMERY, WAYNE, Reservoir Storage (1000	GRAND, & S AF) - End	AN JUAN Co	У		i c	ARBON, EMERY Watershed Si	, WAYNE, G	RAND, & lysis -	SAN JUA March 1	N Co. , 2007
Reservoir	Usable Capacity	*** Usabl This Year	e Storage Last Year	*** Avg	 Water 	shed	Nu. Data	mber of Sites	This Y	ear as % of
HUNTINGTON NORTH	4.2	0.6	3.8	3.4		RIVER		3	57	55
JOE'S VALLEY	61.6	45.4	45.7	41.5	SAN R	AFAEL RIVER		3	60	62
KEN'S LAKE	2.3	2.5	2.2	1.3	MUDDY	CREEK		1	47	54
MILL SITE	16.7	13.2	8.8	84.9	FREMO	NT RIVER		3	110	68
SCOFIELD	65.8	37.6	37.2	34.8	LASAL	MOUNTAINS		1	110	75
					BLUE	MOUNTAINS		1	176	40
					MILLO	W CREEK		1	267	68
					CARBO	N, EMERY, W	AYNE, GRA	13	72	60
					18					

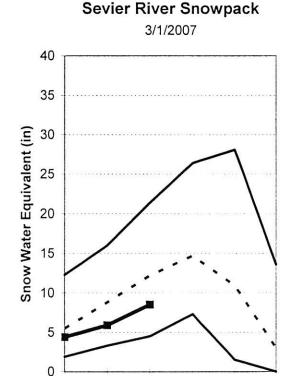
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The average is computed for the 1971-2000 base period.

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(2) - The value is natural volume - actual volume may be affected by upstream water management.

Sevier and Beaver River Basins Mar 1, 2007

Snowpacks on the Sevier River Basin are much below normal at 69% of average, about 94% of last year and up 2% relative to last month. Individual sites range from 4% to 93% of average. The Sevier River has an 8% chance at getting back to average snowpack this season. Precipitation during February was below average at 79% of normal, bringing the seasonal accumulation (Oct-Feb) to 92% of average. Soil moisture estimates in runoff producing areas are at 49% of saturation (Sevier) in the upper 2 feet of soil compared to 46% last year. Streamflow forecasts range from 38% to 71% of average. Reservoir storage is at 80% of capacity, 13% less than last year. Surface Water Supply Indices are: Upper Sevier 52%, Lower Sevier 49% and Beaver 40%. Water supply conditions are near average due to reservoir storage but with poor streamflow expected



1-Feb

1-Mar

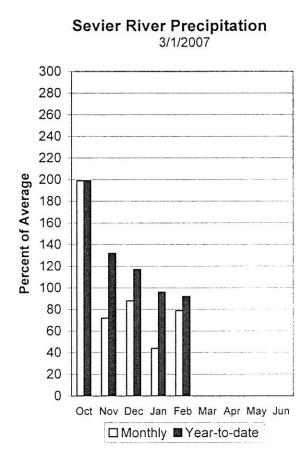
Current

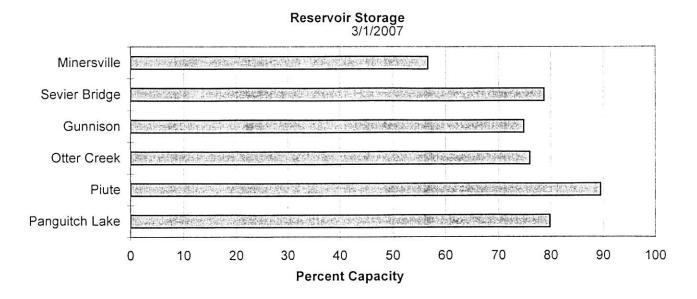
Maximum

1-May

Average

Minimum





SEVIER & BEAVER RIVER BASINS Streamflow Forecasts - March 1, 2007

		~~~~~~	Drier		Niture Co	onditions ===	ware Wort	or =====		
	i	Alaba a da da da da da da da da da da da da	Dildi -		ucure co	marcions	nace	.61	1	
Forecast Point	Forecast			= Cha		xceeding * ==				
	Period	90% (1000AF)	70% (1000AF)	1 (	50 (1000 <b>AF</b> )	(% AVG.)	30% (1000AF	10% (1000)		30-Yr Avg. (1000AF)
Section and the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second commence of the second		700 m		====						
Sevier River at Hatch	APR-JUL	17.3	26	1	33	60	41		14	55
Sevier River nr Kingston	APR-JUL	33	47	į	57	64	68	8	17	89
EF Sevier R nr Kingston	APR-JUL	7.9	16.4	į	24	63	33	4	19	38
Sevier R blw Piute Dam	APR-JUL	28	57		82	65	112	16	55	126
Clear Creek Abv Diversions Nr Sevier	APR-JUL	7.0	11.2	į	14.6	66	18.4	2	.5	22
Salina Creek at Salina	APR-JUL	2.0	6.5	i	11.0	56	16.6	2	27	19.7
Manti Ck Blw Dugway Ck Nr Manti	APR-JUL	7.8	10.7	į	13.0	71	15.5	19	6	18.3
Sevier R nr Gunnison	APR-JUL	107	147	İ	178	64	210	26	55	280
Chicken Creek nr Levan	APR-JUL	0.6	1.6	į	2.6	58	3.8	6	0	4.5
Oak Creek nr Oak City	APR-JUL	0.3	0.6	İ	0.9	54	1.2	1.	8	1.7
Beaver River nr Beaver	APR-JUL	8.8	13.3	İ	17.0	63	21	2	28	27
Minersville Reservoir inflow	APR-JUL	. 1.2	3.8	i	6.3	38	9.5	15	3	16.6
+										
SEVIER & BEAVER Reservoir Storage (1000	AF) - End	of Februar				Watershed Sno		ysis - N	March 1,	
	Usable	*** Usabl	e Storage *				Num	ber	This Yea	ar as % of
Reservoir	Capacity	Year		l vg	Water		Data	of Sites	Last Yr	
GUNNISON	20.3	14.0		.4.6		SEVIER RIVE		8	111	65
MINERSVILLE (RkyFd)	23.3	13.2	21.1 1	.6.2	EAST	FORK SEVIER	RIVER	3	109	69
OTTER CREEK	52.5	39.9	49.0 4	10.0	SOUTH	FORK SEVIER	RIVER	5	113	63

65.9

18.5

53.3 | LOWER SEVIER RIVER (inclu 6

146.8 | SEVIER & BEAVER RIVER BAS 16

BEAVER RIVER

75

66

69

The average is computed for the 1971-2000 base period.

PIUTE

SEVIER BRIDGE

PANGUITCH LAKE

236.0 185.5 222.3 175.6 |

71.8 64.3

22.3

17.8

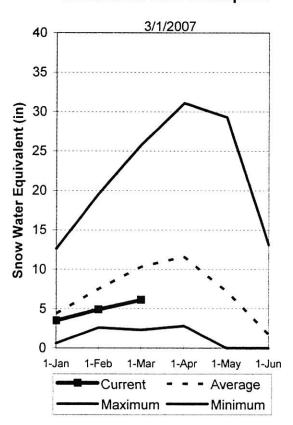
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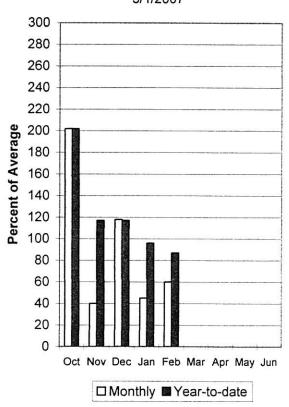
### E. Garfield, Kane, Washington, & Iron Co. March 1, 2007

Snowpacks in this region are much below normal at 59% of average, about 141% of last year and down 6% relative to last month. These watersheds have a 14% chance of reaching average snowpack this season. Individual sites range from 12% to 100% of average. Precipitation in the month of February was much below average at 60%, bringing the seasonal accumulation (Oct-Feb) to 87% of average. Soil moisture estimates in runoff producing areas are at 45% of saturation in the upper 2 feet of soil compared to 31% last year. Forecast streamflows range from 46% to 55% of average. Reservoir storage is at 83% of capacity, 8% less than last year. The Surface Water Supply Index is at 33%, indicating below average water supply conditions.

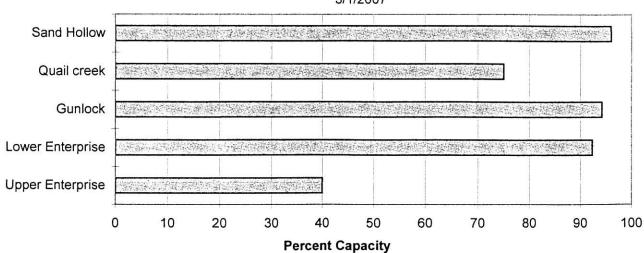
### Southwest Utah Snowpack



## Southwest Utah Precipitation 3/1/2007



### Reservoir Storage 3/1/2007



E. GARFIELD, KANE, WASHINGTON, & IRON Co.

			ow Forecasts							*******
Forecast Point	Forecast Period	<<====     90%   (1000AF	70% (1000AF)	Ch	Future Co. ance Of E. 50 (1000AF)	xceeding * == %   (% AVG.)	30% (1000AE	10 (10)	==>>        0%    00AF)	30-Yr Avg. (1000AF)
Lake Powell Inflow (2)	APR-JUL	2650	4410		5600	71	6790		550	7930
Virgin River at Virgin	APR-JUL	17.3	24	1	33	52	43		60	64
Virgin River near Hurricane	APR-JUL	17.3	22	!	32	46	. 44		65	69
Santa Clara River nr Pine Valley	APR-JUL	1.0	2.1	l	3.0	55	4.1		6.0	5.5
Coal Creek nr Cedar City	APR-JUL	6.3	9.8	1	12.7	66 I	15.9		21	19.3
E. GARFIELD, KANE, Reservoir Storage (100	WASHINGTON,	& IRON C	o. ary		1 1	E. GARFIELD, Watershed Sno	KANE, WASH	HINGTON Lysis -	, & IRO	N Co. 1, 2007
Reservoir	Usable   Capacity	*** Usa This Year	ble Storage Last Year	*** Avg	   Water	shed	Nur Data	nber of Sites	This Last	Year as % of Yr Average
GUNLOCK	10.4	9.8	10.4	4.9		N RIVER		5	133	58
LAKE POWELL	24322.0	11560.0	10871.0		PAROW	AN		2	106	74
QUAIL CREEK	40.0	30.0	37.3	29.7	ENTER	PRISE TO NEW	HARMONY	2	1280	48
UPPER ENTERPRISE	10.0	4.0	9.0		COAL	CREEK		2	109	71
LOWER ENTERPRISE	2.6	2.4	0.0	90.0	ESCAL	ANTE RIVER		2	138	73
					E. GA	RFIELD, KANE	, WASHIN	9	138	59

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The average is computed for the 1971-2000 base period.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural volume - actual volume may be affected by upstream water management.

UTAH SURFACE Snow Surveys	WATER NRCS	SUPPLY USDA	INDEX
<b>Basin or Region</b>	SWSI/%	Percentile	Years with
1-Mar-07			Similar SWSI
Bear River	-2.43	21%	95,02,06,90
Ogden River	-2.03	26%	04,02,00,91
Weber River	-1.93	27%	91,87,00,89
Provo	0.50	56%	81,70,68,53
West Uintah Basin	2.43	79%	01,06,05,97
East Uintah Basin	-0.43	45%	80,82,96,00
Price River	-1.17	36%	62,93,94,72
San Rafael	-0.93	39%	95,76,88,99
Moab	-0.89	39%	99,96,82,91
Upper Sevier River	0.16	52%	2001,74,94,62
Lower Sevier River	-0.10	49%	89,71,96,74
Beaver River	-0.87	40%	94,89,75,62
Virgin River	-1.39	33%	04,96,85,97
Snow Surveys			SWSI Scale: -4 to 4
245 N Jimmy Doolittle Rd Salt Lake City, UT			Percentile: 0 - 100%

Salt Lake City, UT (801) 524-5213

### What is a Surface Water Supply Index?

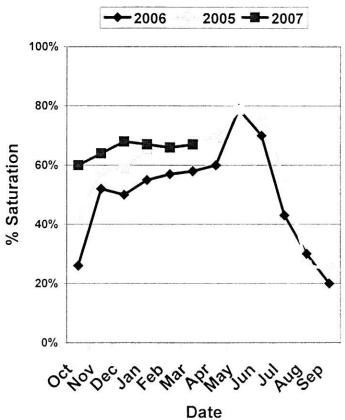
The Surface Water Supply Index (SWSI) is a predictive indicator of total surface water availability within a watershed for the spring and summer water use seasons. The index is calculated by combining pre-runoff reservoir storage (carryover) with forecasts of spring and summer streamflow which are based on current snowpack and other hydrologic variables. SWSI values are scaled from +4.1 (abundant supply) to -4.1 (extremely dry) with a value of zero (0) indicating median water supply as compared to historical analysis. SWSI's are calculated in this fashion to be consistent with other hydroclimatic indicators such as the Palmer Drought Index and the Precipitation index.

Utah Snow Surveys has also chosen to display the SWSI as a PERCENT CHANCE OF NON-EXCEEDANCE. While this is a very cumbersome name, it has the simplest application. It can be best thought of as a simple scale of 1 to 99 with 1 being the drought of record (driest possible conditions) and 99 being the flood of record (wettest possible conditions) and a value of 50 representing average conditions. This rating scale is a percentile rating as well, for example a SWSI of 75% means that this years water supply is greater than 75% of all historical events and that only 25% of the time has it been exceeded. Conversely a SWSI of 10% means that 90% of historical events have been greater than this one and that only 10% have had less total water supply. This scale is far more intuitive for most people and is totally comparable between basins: a SWSI of 50% means the same relative ranking on watershed A as it does on watershed B, which may not be strictly true of the +4 to -4 scale.

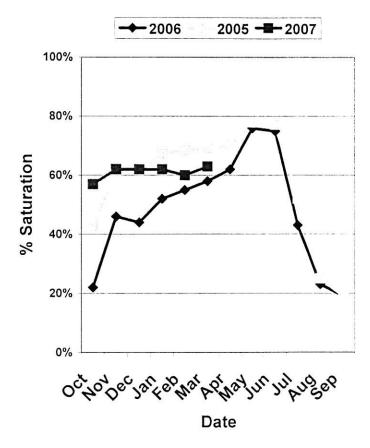
For more information on the SWSI go to: www.ut.nrcs.usda.gov/snow/ on the water supply page. The entire period of historical record for reservoir storage and streamflow is available.

### Watershed Soil Moisture Charts for Utah Water Supply

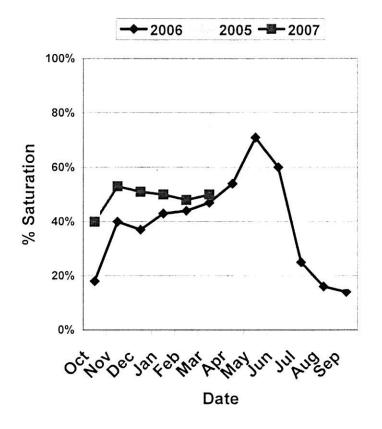
### **Bear River Soil Moisture**



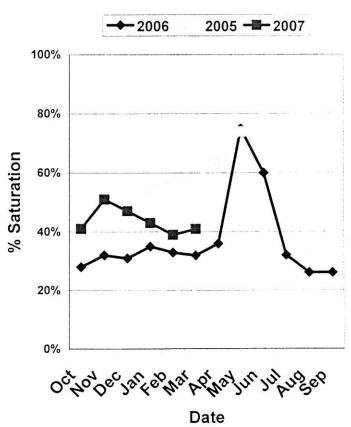
### Weber River Soil Moisture



Jordan/Provo River Soil Moisture

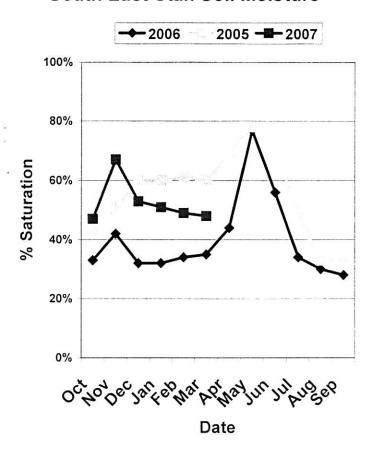


**Uintah Basin Soil Moisture** 

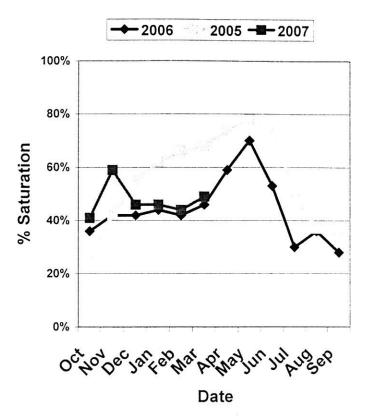


### Watershed Soil Moisture Charts for Utah Water Supply

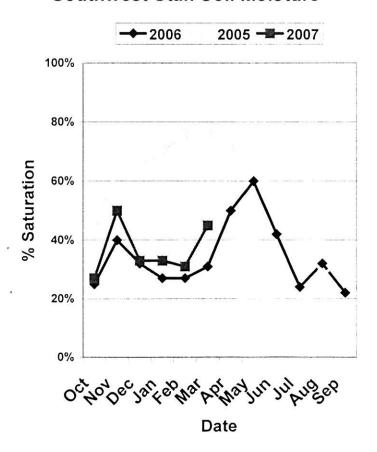
### South East Utah Soil Moisture



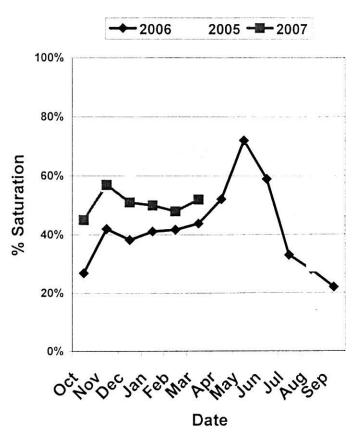
# Sevier/Beaver River Soil Moisture



### Southwest Utah Soil Moisture



### Statewide Soil Moisture

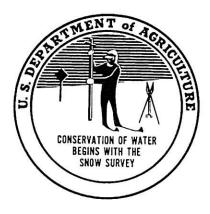


### SNOW COURSE DATA

MARCH 2007

SNOW COURSE .	ELEV.	DATE	SNOW	WATER	LAST	AVERAGE
3. 33. 10. 10. 1				CONTENT	YEAR	
AGUA CANYON SNOTEL	8900	3/01	24	5.4	4.8	7.3
ALTA CENTRAL	8800	3/01		22.3	45.3	
	8000	3/01	27	6.2	9.4	
BEAVER DIVIDE SNOTEL		3/01	36	6.3	12.4	
BEN LOMOND PK SNOTEL		3/01	67 34	19.6	37.7	
BEN LOMOND TR SNOTEL BEVAN'S CABIN	6450	3/01 2/26	25	9.1 6.8	21.1 8.6	19.0 9.2
BIG FLAT SNOTEL		3/01			11.8	15.0
BIRCH CROSSING	8100	2/26	21	4.9	4.7	
BLACK FLAT-U.M. CK S		3/01	25	5.0		
BLACK'S FORK GS-EF		2/24	25	5.4	9.2	
BLACK'S FORK JUNCTN		2/24		5.7	9.5 9.4	
BOX CREEK SNOTEL BRIAN HEAD	9800 10000	3/01 2/26	37 45	8.6 11.3	11.1	
BRIGHTON SNOTEL	8750	3/01	61	14.9	25.2	
BRIGHTON CABIN	8700	2/28	67	16.0	27.1	
BROWN DUCK SNOTEL	10600	3/01 2/27	62	11.7		15.0
BRYCE CANYON	8000		1	. 2	17.2 2.0 17.3	4.9
	9800	3/01	43	9.7	17.3 18.4	15.3
BUCK PASTURE	9700	2/24	50	10.8	18.4	
BUCKBOARD FLAT BUG LAKE SNOTEL	9000 7950	2/28 3/01	38 53	12.1	3.5 21.5	11.0 17.1
BURT'S-MILLER RANCH		2/24	22	5.3	4.7	4.7
CAMP JACKSON SNOTEL		3/01	28	5.1	4.7 2.9	12.9
CASCADE MOUNTAIN SNO	7770		50	11.3	16.1 8.3	****
CASTLE VALLEY SNOTEL		3/01	41	7.9	8.3	11.8
CHALK CK #1 SNOTEL	9100	3/01	72	17.8 12.1	22.8 12.5	19.9
CHALK CK #2 SNOTEL	8200	3/01	51	12.1	12.5	12.9
CHALK CREEK #3 CHEPETA SNOTEL	7500 10300	2/24 3/01	52	6.3 10.3	6.5 10.2	6.8 11.4
CLAYTON SPRINGS SNTL		3/01	38	7.7	6.5	
CLEAR CK RIDG #1 SNT		3/01	47	9.1	6.5 17.8	16.7
CLEAR CK RIDG #2 SNT	8000	3/01 2/25	47		12.0	12.3
CORRAL	8200			4.7	3.3	-
CURRANT CREEK SNOTEL		3/01		6.5	10.8	
DANIELS-STRAWBERRY S DILL'S CAMP SNOTEL	9200	3/01	43 35		19.4 14.0	
DONKEY RESERVOIR SNO		3/01 3/01	34	6.6	3.6	
DRY BREAD POND SNTL		3/01		12.2	19.9	19.0
DRY FORK SNOTEL		3/01	50	11.4	12.2	14.5
EAST WILLOW CREEK SN	8250	3/01	26	4.8	1.8	7.1
FARMINGTON U. SNOTEL		3/01	83	20.5	36.6	
FARMINGTON L. SNOTEL		3/01		14.2	19.8 12.4	14.0
FARNSWORTH LK SNOTEL FISH LAKE	8700	3/01 2/25	62 10	13.7 2.1	5.6	14.8 7.5
FIVE POINTS LAKE SNO		3/01	49	10.7	15.3	
G.B.R.C. HEADQUARTER			42	9.3	14.3	
G.B.R.C. MEADOWS	10000	2/26	54	12.5	22.8	19.0
	7600	2/24	32	7.5	16.3	13.5
GARDNER PEAK SNOTEL		3/01	31	6.6	4.6	
GEORGE CREEK GOOSEBERRY R.S.	8840 8400	2/27 2/25	51 33	13.0 7.1	20.6 9.3	17.3 9.9
GOOSEBERRY R.S. SNTL		3/01	28	7.4	7.0	7.9
GUTZ PEAK SNOTEL	6820	3/01	18	3.8	.0	-
HARDSCRABBLE SNOTEL		3/01	52	12.6	22.3	
HARRIS FLAT SNOTEL	7700	3/01	4	. 8	. 0	6.9
HAYDEN FORK SNOTEL	9100	3/01	45	10.2	17.6	
	10000	2/24	43	9.0	12.0	10.5
HEWINTA SNOTEL HICKERSON PARK SNTL	9500 9100	3/01 3/01	37 29	7.5 6.4	10.3 3.5	9.1 5.8
HIDDEN SPRINGS	5500	3/01	14	2.4	6.0	5.9
HOBBLE CREEK SUMMIT		2/24	32	7.9	15.8	13.1
HOLE-IN-ROCK SNOTEL		3/01	33	6.2	5.9	5.7
	8260	3/01	57	13.6	24.4	20.2
HUNTINGTON-HORSESHOE		2/26	39	8.7	21.1	19.4
INDIAN CANYON SNOTEL JOHNSON VALLEY	9100 8850	3/01 2/25	35 12	8.1 2.6	7.8 5.7	9.6 6.4
	9720	2/25	37	8.1	4.9	-

SNOW COURSE	ELEV.	DATE		WATER CONTENT		AVERAGE 71-00
KILFOIL CREEK KILLYON CANYON KIMBERLY MINE SNOTEL KING'S CABIN SNOTEL	7300	2/24	30	6.5	15.3	12.4
KILLYON CANYON	6300	2/27	24	4.1	10.6	8.7
KIMBERLY MINE SNOTEL	9300	3/01	49	11.5	10.0	13.3
KING'S CABIN SNOTEL	8730	3/01	33	6.3	4.7	9.4
KLONDIKE NARROWS KOLOB SNOTEL	7400	2/24	37	10.1 11.9	22.7	16.8
KOLOB SNOTEL	9250	3/01	54	11.9	9.4	17.8
LAKEFORK #1 SNOTEL	10100	3/01	40	7.5	8.7	10.5
LAKEFORK BASIN SNTL	10900	3/01	57	10.8	19.3	16.6
LAKEFORK MOUNTAIN #3 LAMBS CANYON	8400	2/24	22	5.5	4.1 17.5	6.1
LAMBS CANYON	7400	2/28	53	11.5	17.5	14.5
LASAL MOUNTAIN LOWER LASAL MOUNTAIN SNTL	8800	2/28	27	3.5	4.4	8.1
LASAL MOUNTAIN SNTL	9850	3/01	36	8.0	7.3	10.7
LIGHTNING RIDGE SNTL LILY LAKE SNOTEL	8220	3/01	48	11.7	18.3	-
LILY LAKE SNOTEL	9050	3/01	49	10.2	12.1	10.8
LITTLE BEAR LOWER	6000	2/24	24	6.3	11.7	10.2
LITTLE BEAR SNOTEL	6550	3/01	29	7.8	11.8	12.8
LITTLE GRASSY SNOTEL	6100	3/01	9	1.2	. 0	5.8
LONG FLAT SNOTEL	8000	3/01	21	5.2	. 5	7.4
LONG VALLEY JCT. SNT	7500	3/01	4	. 7	. 0	5.8
LOOKOUT PEAK SNOTEL	8200	3/01	73	17.4	30.1	20.1
LOST CREEK RESERVOIR	6130	2/24	6	1.9	8.5	5.9
LILY LAKE SNOTEL LITTLE BEAR LOWER LITTLE BEAR SNOTEL LITTLE GRASSY SNOTEL LONG FLAT SNOTEL LONG VALLEY JCT. SNT LOOKOUT PEAK SNOTEL LOST CREEK RESERVOIR LOUIS MEADOW SNOTEL MAMMOTH-COTTONWD SNT MERCHANT VALLEY SNTL	6700	3/01	51	14.6	21.1	Acronom States
MAMMOTH-COTTONWD SNT	8800	3/01	43	8.8	17.4	17.6
MAMMOTH-COTTONWD SNT MERCHANT VALLEY SNTL MIDDLE CANYON MIDWAY VALLEY SNOTEL	8750	3/01	37	6.8	8.3	11.4
MIDDLE CANYON	7000	2/26	32	8.3	13.4	12.2
MIDWAY VALLEY SNOTEL	9800	3/01	62	15.1	13.5	19.4
MILL CREEK	6950	2/28	56	11.9	18.7	16.6
AILL CREEK AILL-D NORTH SNOTEL AILL-D SOUTH FORK	8960	3/01	69	14.3	27 1	21.0
ATLI-D SOUTH FORK	7400	2/28	53	11 5	19.8	16 9
MINING FORK SNOTEL	8000	3/01	49	12.3	17.0	14.9
MINING FORK SNOTEL MONTE CRISTO SNOTEL	8960	3/01	70	17 3	27.3	24.7
MOCRY MINI CNOTEI	9500	3/01	15	9.0	7.7	0.2
MOSBY MTN. SNOTEL MT.BALDY R.S. MUD CREEK #2 DAK CREEK PANGUITCH LAKE R.S.	9500	2/26	56	13.2	21 9	10.0
ATT CREEK #3	9500	2/20	36	7.2	14.3	19.9
NOD CREEK #2	37.60	2/24	36	7.3	14.2	12.0
DAN CREEK	7760	2/26	34	8.5	8.2	10.0
PANGUITCH LAKE R.S.	3500	2/26	-	1.6 12.2	2.8	15.3
PARLEY'S CANYON SNTL		3/01	56	12.2	16.4	15.3
PARRISH CREEK SNOTEL PAYSON R.S. SNOTEL	7740	3/01	69	17.1	23.0	
PAYSON R.S. SNOTEL	8050	3/01	39	9.5	14.4	17.2
PICKLE KEG SNOTEL PINE CREEK SNOTEL RED PINE RIDGE SNTL REDDEN MINE LOWER REES'S FLAT ROCK CREEK SNOTEL	9600	3/01	49	10.7	15.5	14.1
PINE CREEK SNOTEL	8800	3/01	55	15.9	12.5	19.3
RED PINE RIDGE SNTL	9200	3/01	40	9.2	14.9	14.2
REDDEN MINE LOWER	8500	2/24	42	10.8	16.3	15.1
REES'S FLAT	7300	2/26	39	8.3	10.5	11.2
ROCK CREEK SNOTEL	7900	3/01	31	5.8	9.4	7.9
ROCKY BN-SETTLEMT SN	8900	3/01	54	14.0	16.6	21.2
SEELEY CREEK SNOTEL			29	6.9	10.6	12.3
SMITH MOREHOUSE SNTL	7600	3/01	47	11.0	12.8	12.4
SNOWBIRD SNOTEL	9700	3/01	85	19.7	43.1	28.3
SPIRIT LAKE	10300	2/24	41	9.5	7.0	10.5
SQUAW SPRINGS	9300	2/25	17	3.7	6.6	6.6
STEEL CREEK PARK SNO	10100	3/01	45	10.3	13.2	12.7
STILLWATER CAMP		2/24	35	7.0	9.6	8.8
TRAWBERRY DIVIDE SN	8400		48	10.5	18.2	16.3
SUSC RANCH	8200	2/26	14	4.6	1.5	8.1
TALL POLES	8800	2/26	37	8.6	8.8	12.1
	7410	3/01	52	10.2	19.7	-
THAYNES CANYON SNTL		1000	63	14.7	23.1	19.3
	8500	2/26	46	9.8	14.8	-
IMBERLINE	9100	2/25	28	6.8	5.2	· -
IMPANOGOS DIVIDE SN		3/01	58	12.5	20.2	20.4
ONY GROVE LK SNOTEL			85	22.4	46.9	30.0
	6250	2/24	24	6.8	15.0	11.3
RIAL LAKE	9960		54	12.0	26.5	20.3
RIAL LAKE SNOTEL	9960	3/01	58	13.1	24.7	20.5
	9400	3/01	38	7.1	5.1	8.1
JPPER JOES VALLEY			21		10.6	9.3
	8900	2/25		4.5		
VERNON CREEK SNOTEL		3/01	32	6.6	6.9	10.1
/IPONT	7670	2/25	38	10.0	19.8	12.2
WEBSTER FLAT SNOTEL		3/01	37	8.3	8.0	13.5
WHITE RIVER #1 SNTL		3/01		7.5	9.7	11.6
WHITE RIVER #3	7400	2/24	14	4.0	9.7	7.8
VIDTSOE #3 SNOTEL	9500	3/01	33	5.3	4.1	9.7
VIDTSOE #3 SNOTEL VRIGLEY CREEK		3/01 2/25 2/27	33 25 28	5.3 5.2 5.5	4.1 9.5 6.2	9.7 9.6 8.4



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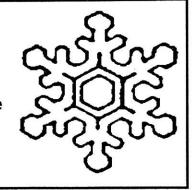
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# Utah Water Supply Outlook Report

Natural Resources Conservation Service Salt Lake City, UT





# Utah Water Supply Outlook Report

April, 2007



Johnson Valley Snow Course April, 2007. New record low April 1 Snowpack for the Sevier and southeastern Utah Watersheds. Photo by Tim Bardsley, NRCS, USDA.

# Water Supply Outlook Reports and Federal - State - Private Cooperative Snow Surveys

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### How forecasts are made

Most of the annual streamflow in the western United States originates as snowfall that has accumulated in the mountains during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Measurements of snow water equivalent at selected manual snowcourses and automated SNOTEL sites, along with precipitation, antecedent streamflow, and indices of the El Niño / Southern Oscillation are used in computerized statistical and simulation models to prepare runoff forecasts. These forecasts are coordinated between hydrologists in the Natural Resources Conservation Service and the National Weather Service. Unless otherwise specified, all forecasts are for flows that would occur naturally without any upstream influences.

Forecasts of any kind, of course, are not perfect. Streamflow forecast uncertainty arises from three primary sources: (1) uncertain knowledge of future weather conditions, (2) uncertainty in the forecasting procedure, and (3) errors in the data. The forecast, therefore, must be interpreted not as a single value but rather as a range of values with specific probabilities of occurrence. The middle of the range is expressed by the 50% exceedance probability forecast, for which there is a 50% chance that the actual flow will be above, and a 50% chance that the actual flow will be below, this value. To describe the expected range around this 50% value, four other forecasts are provided, two smaller values (90% and 70% exceedance probability) and two larger values (30%, and 10% exceedance probability). For example, there is a 90% chance that the actual flow will be more than the 90% exceedance probability forecast. The others can be interpreted similarly.

The wider the spread among these values, the more uncertain the forecast. As the season progresses, forecasts become more accurate, primarily because a greater portion of the future weather conditions become known; this is reflected by a narrowing of the range around the 50% exceedance probability forecast. Users should take this uncertainty into consideration when making operational decisions by selecting forecasts corresponding to the level of risk they are willing to assume about the amount of water to be expected. If users anticipate receiving a lesser supply of water, or if they wish to increase their chances of having an adequate supply of water for their operations, they may want to base their decisions on the 90% or 70% exceedance probability forecasts, or something in between. On the other hand, if users are concerned about receiving too much water (for example, threat of flooding), they may want to base their decisions on the 30% or 10% exceedance probability forecasts, or something in between. Regardless of the forecast value users choose for operations, they should be prepared to deal with either more or less water. (Users should remember that even if the 90% exceedance probability forecast is used, there is still a 10% chance of receiving less than this amount.) By using the exceedance probability information, users can easily determine the chances of receiving more or less water.

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### STATE OF UTAH GENERAL OUTLOOK April 1, 2007

### **SUMMARY**

March reminds us that when you think it can't possibly get worse, it certainly can. This March was a complete disaster for snowpacks. At a time when Utah normally gets a substantial amount of snow (about 17% of our total snowpack typically accumulates in March), snowpacks were in full retreat, heading the wrong direction. Not in a quiet, organized fashion but in full out panic, headlong at full speed without the cinch tightened and with stirrups flapping. So, just how bad was it? The March snowpack accumulation in Bear River was -29% of average, the worst April 1 since 2001. The Weber River March accumulation was -28% of average, the worst April 1 since 1992. The March accumulation in the Provo was -41% of average, making it the worst April 1 since 1977 and there are still many who remember how bad 1977 was. The Uinta's March accumulation was -38% of average, also the worst April 1 since 1977. Both Southeast Utah and the Sevier River have a new record low April 1 snowpack, with percent of average March accumulation at -79% and -76%, respectively. Southwest Utah March accumulation was -138%, the worst snowpack since 2002. Statewide, the March accumulation was -55% of average and the worst state total since 1977. Is this the worst March ever in terms of snowpack accumulation? The answer is no, there have been a couple that were worse, but this year we really haven't had any good accumulation months for the entire season. This leaves us in the current position of having snowpacks that range from 37% of average in southwest Utah to 57% of average on the Uintas. Most areas have between 40% and 55% of average snowpacks. Utah needed a monster March snow accumulation and what we got was one of the lowest on record. Soil moisture, as one would expect from all that melting snow, increased rapidly this past month: Bear - 74%, Weber - 72%, Provo - 65%, Uintah Basin - 61%, southeast Utah - 73%, Sevier - 69%, southwest Utah - 66%, and statewide - 69% of saturation. These values are a little higher than last year. In general, most areas of the state have excellent reservoir carryover. General water supply conditions range from much below to near average. Streamflow forecasts range from 13% to 68% of average. Surface Water Supply Indices range from 12% on the Weber River to 67% on the west side of the Uintah Basin.

### **SNOWPACK**

April first snowpacks as measured by the NRCS SNOTEL are as follows: Bear - 56%, Weber - 54%, Provo - 50%, Uintahs - 57%, southeast Utah - 36%, Sevier - 45%, southwest Utah - 37% and the statewide figure is 50% of average. Snowpacks are isothermal at most locations with rapid snowmelt. This is about 3 weeks earlier than normal. In a general statewide context, this is the worst April 1 snowpack since 1977.

### **PRECIPITATION**

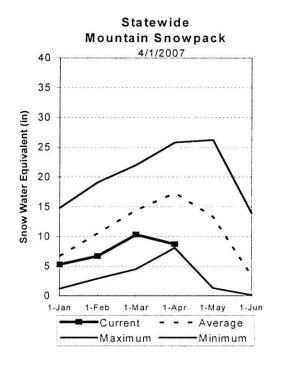
Mountain precipitation during March was much below normal in northern Utah (58%-65%) and much below normal across southern Utah (34%-51%). This brings the seasonal accumulation (Oct-Mar) to 82% of average statewide and ranges from 76% on southwest Utah to 88% over southeastern Utah.

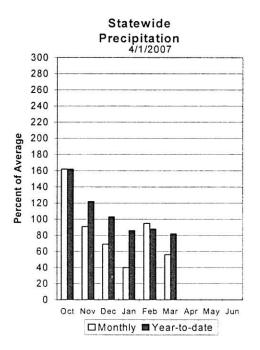
### RESERVOIRS

Storage in 41 of Utah's key irrigation reservoirs is at 74% of capacity up 3% from last month. This is also an increase of 3% from last year. Reservoirs across the State have been making steady gains in storage. Bear Lake really is the last reservoir to remain in an extremely low condition due to the prolonged drought.

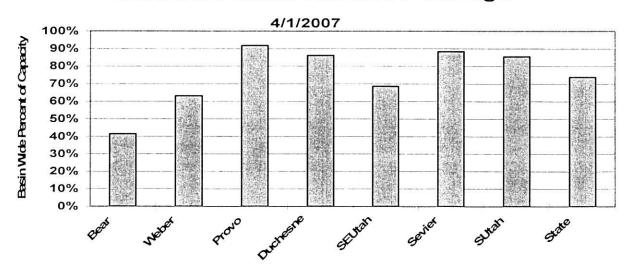
### **STREAMFLOW**

Snowmelt streamflows are expected to have a wide range from much below average to near average across the state of Utah this year. Forecast streamflows range from 3% on North Creek near Monticello to 68% of average for the Bear River near State Line. Most flows are forecast to be in the 40% to 55% range.





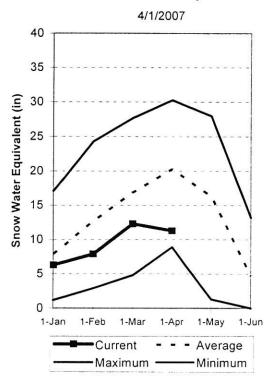
### Statewide Basin Reservoir Storage



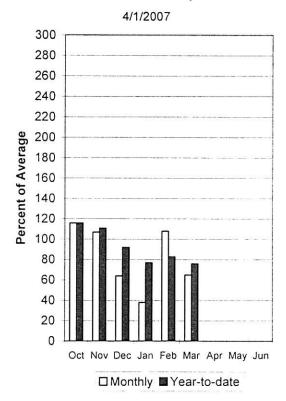
### Bear River Basin April 1, 2007

Snowpacks on the Bear River Basin are much below average at 55% of normal, about 44% of last year. Specific sites range from 0% to 76% of normal. March precipitation was much below average at 65%, which brings the seasonal accumulation (Oct-Mar) to 80% of average. Soil moisture levels in runoff producing areas are at 74% of saturation in the upper 2 feet of soil compared to 61% last year. This is due mainly to above average precipitation in October. Forecast streamflows are much below average (32%-68%) volumes for this spring. Reservoir storage is low at 42% of capacity, 14% more than last year. The Surface Water Supply Index is at 21% for the Bear River, or 79% of years have had more total water available. Water supply conditions are much below normal due to low streamflow and reservoir storage. Since 1971 only one year, 1992, had worse snowpack conditions.

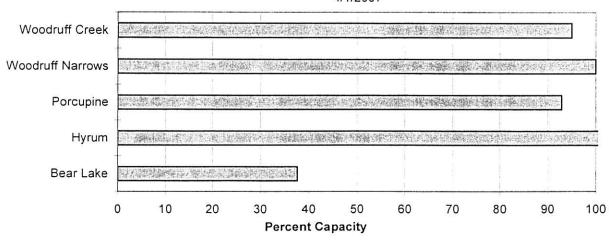
### Bear River Snowpack



### **Bear River Precipitation**



### Reservoir Storage



### BEAR RIVER BASIN

### Streamflow Forecasts - April 1, 2007

		<<====== 	Drier ==		Future C	onditions =		Wetter	====>>	
Forecast Point	Forecast Period	90% (1000AF)	70% (1000AF)	l I	5 (1000AF)	Exceeding * : 0% (% AVG.)	   (1	30% 000AF)	10%   (1000AF)	30-Yr Avg. (1000AF)
Bear River nr UT-WY State Line	APR-JUL	56	68		77	68	===== 	86	101	113
Bear River ab Reservoir nr Woodruff	APR-JUL	28	48	1	64	47	! !	82	114	136
Big Creek nr Randolph	APR-JUL	0.3	1.1	i	1.8	37	l I	2.7	4.3	4.9
Smiths Fork nr Border	APR-JUL	44	55	i	64	62	! !	73	88	103
Bear River at Stewart Dam	APR-JUL	42	60	1	75	32	l I	91	118	234
Little Bear River at Paradise	APR-JUL	5.2	9.9	1	14.0	30	!	18.8	27	46
Logan R Abv State Dam Nr Logan	APR-JUL	28	42	i	53	42	 	65	86	126
Blacksmith Fk Abv Up&L Dam Nr Hyrum	APR-JUL	12.2	18.2	I I	23	48	 	28	37	48
BEAR RIV Reservoir Storage (1000	ER BASIN AF) - End	of March			 	Watershed S	BEAR R	IVER BA	SIN is - April :	1, 2007
Reservoir	Usable   Capacity	*** Usab This Year	le Storage Last Year	*** Avg	   Wate: 	rshed		Number of Data Si	This tes Last	Cear as % of
BEAR LAKE	1302.0	490.3	325.3			RIVER, UPPE			53	64
HYRUM	15.3	15.4	11.4	12.2	BEAR	RIVER, LOWE	R (blw	на 8	39	50
PORCUPINE	11.3	10.5	11.2	6.7	LOGA	N RIVER		4	41	55
WOODRUFF NARROWS	57.3	57.3	42.0	32.7	   RAFT	RIVER		1	55	98

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

BEAR RIVER BASIN

55

The average is computed for the 1971-2000 base period.

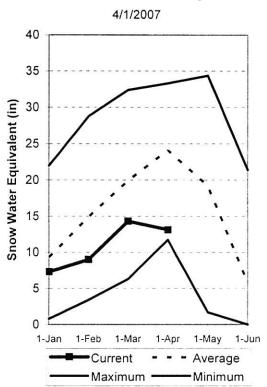
WOODRUFF CREEK

The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 The value is natural volume - actual volume may be affected by upstream water management.

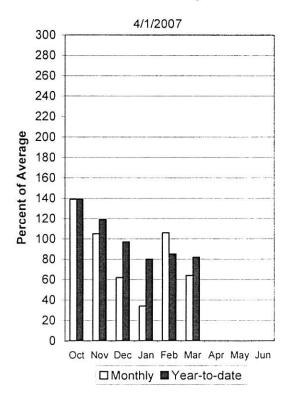
### Weber and Ogden River Basins April 1, 2007

Snowpacks on the Weber and Ogden Watersheds are much below average at 54%, about 42% of last year. Individual sites range from 0% to 85% of average. March precipitation was much below average at 65% bringing the seasonal accumulation (Oct-Mar) to 80% of average. Soil moisture levels in runoff producing areas are at 72% of saturation in the upper 2 feet of soil compared to 62% last year. Streamflow forecasts range from 29% to 68% of average. Reservoir storage is at 63% of capacity, 15% lower than last year. The Surface Water Supply Index is at 12% for the Weber River and at 19% for the Ogden River. Overall water supply conditions are much below normal. Only one year since 1971 had worse snowpack conditions, that was in 1977.

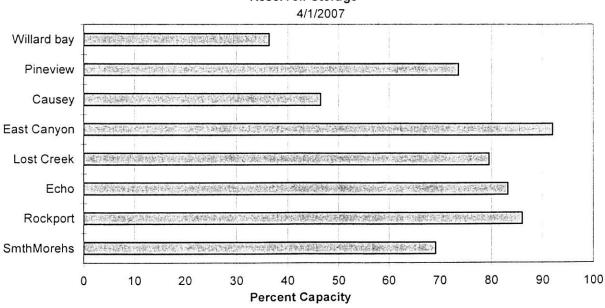
### Weber River Snowpack



### Weber River Precipitation



### Reservoir Storage



### WEBER & OGDEN WATERSHEDS in Utah Streamflow Forecasts - April 1, 2007

		<<======	Drier =====	Future Co	onditions ==	Wetter	· ====>>	
Forecast Point	Forecast   Period	90% (1000AF)	70%   (1000AF)	50 (1000AF)	_	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Smith & Morehouse Res inflow	APR-JUL	16.7	20	23	68	26	29	34
Weber River nr Oakley	APR-JUL	54	69	80	65	91	106	123
Rockport Resv Inflow Nr Wanship	APR-JUL	58	74	86	64	98	114	134
Weber River nr Coalville	APR-JUL	62	69	74	54	79	87	137
Chalk Creek at Coalville	APR-JUL	9.6	16.4	22	49	28	39	45
Echo Reservoir inflow	APR-JUL	46	75	95	53	115	144	179
Lost Creek Reservoir inflow	APR-JUL	2.4	4.3	5.9	34	7.7	10.9	17.6
East Canyon Reservoir inflow	APR-JUL	6.9	10.8	14.0	45	17.6	24	31
Weber River at Gateway	APR-JUL	125	145	158	45	171	191	355
SF Ogden River nr Huntsville	APR-JUL	9.6	14.8	19.0	30	24	32	64
Pineview Reservoir inflow	APR-JUL	7.0	27	40	30	53	73	133
Wheeler Creek nr Huntsville	APR-JUL	0.8	1.3	1.8	29	2.3	3.2	6.3

WEBER & OGDEN W Reservoir Storage (100				1	WEBER & OGDEN Watershed Snowpac			2007
Reservoir	Usable   Capacity  	*** Usa This Year	ble Storage Last Year	***     Avg	Watershed	Number of Data Sites		ar as % of  Average
CAUSEY	7.1	3.3	2.1	2.6	OGDEN RIVER	4	36	43
EAST CANYON	49.5	45.5	36.6	36.5	WEBER RIVER	9	44	60
ЕСНО	73.9	61.5	53.3	51.5	WEBER & OGDEN WATERSHE	DS 13	41	54
LOST CREEK	22.5	17.9	16.5	14.1				
PINEVIEW	110.1	81.1	72.4	61.7				
ROCKPORT	60.9	52.4	45.1	35.1				
WILLARD BAY	215.0	78.2	192.2	160.9				

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

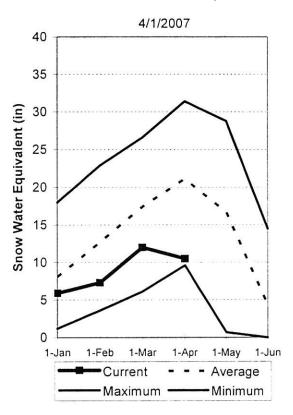
The average is computed for the 1971-2000 base period.

The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 The value is natural volume - actual volume may be affected by upstream water management.

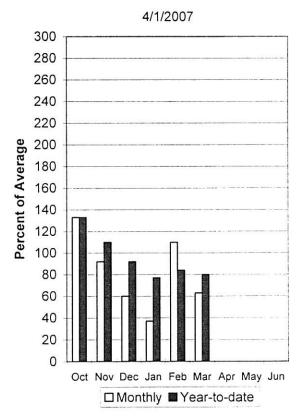
### Utah Lake, Jordan River & Tooele Valley Basins April 1, 2007

Snowpack over these regions is much below average at 50%, which is 39% of last year and down 19% from last month. This is the lowest April 1 snowpack for this region since 1977. Individual sites range from 0% to 80% of average. March precipitation was much below average at 63%, bringing the seasonal accumulation (Oct-Mar) to 80% of average. Soil moisture levels in runoff producing areas are at 65% of saturation in the upper 2 feet of soil compared to 54% last year. Reservoir storage is at 92% of capacity, 4% higher than last year. Streamflow forecasts range from 26% to 62% of average. The Surface Water Supply Index is at 48%, indicating general water supply conditions are near normal due to good reservoir carryover.

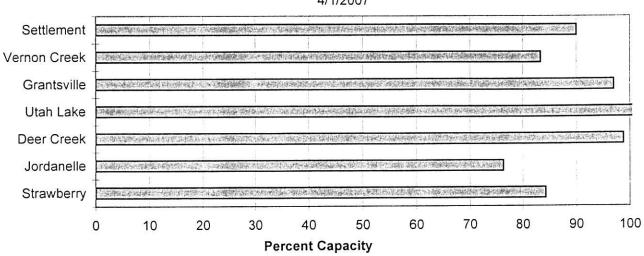
### **Provo River Snowpack**



### **Provo River Precipitation**



### Reservoir Storage 4/1/2007



### UTAH LAKE, JORDAN RIVER & TOOELE VALLEY Streamflow Forecasts - April 1, 2007

		<<======	Drier ====	== Future Co	onditions ==	Wetter	>>	
Forecast Point	Forecast Period	90% (1000AF)	70% (1000AF)	50   (1000AF)	(% AVG.)	30%   (1000AF)	10%   (1000AF)	30-Yr Avg. (1000AF)
Spanish Fork River nr Castilla	APR-JUL	5.4	14.4	23	30		53	77
Provo River nr Woodland	APR-JUL	34	45	j 53	52	l   62	76	103
Provo River nr Hailstone	APR-JUL	41	48	54	50	i 60	69	109
Deer Creek Resv Inflow	APR-JUL	11.0	40	i 60	48	i 80	109	126
American Fk Abv Upper Powerplant	APR-JUL	7.2	11.1	1 14.2	44	1 1 17.7	24	32
Utah Lake inflow	APR-JUL	53	81	1 103	32	1 156	235	325
West Canyon Ck Nr Cedar Fort	APR-JUL	0.3	0.6	0.8	33	1.1	1.5	2.4
Little Cottonwood Ck nr SLC	APR-JUL	14.9	19.0	22	55	l 25	30	40
Big Cottonwood Ck nr SLC	APR-JUL	13.6	17.8	21	55	24	30	38
Mill Creek nr SLC	APR-JUL	1.3	2.1	1 2.8	40	1 1 3.6	4.8	7.0
Parley's Creek nr SLC	APR-JUL	1.8	3.7	5.4	32	7.4	11.0	16.7
Dell Fork nr SLC	APR-JUL	0.6	1.4	2.1	31	3.0	4.6	6.8
Emigration Creek nr SLC	APR-JUL	0.1	0.7	1 1.2	26	1.9	3.1	4.5
City Creek nr SLC	APR-JUL	1.4	2.4	3.2	37	4.1	5.7	8.7
Vernon Creek nr Vernon	APR-JUL	0.2	0.4	0.6	38	0.8	1.1	1.5
Settlement Creek Abv Resv Nr Tooele	APR-JUL	0.3	0.5	0.7	33	0.9	1.3	2.1
South Willow Creek nr Grantsville	APR-JUL	1.2	1.6	I I 2.0 I	62	2.4	3.0	3.2
UTAH LAKE, JORDAN R Reservoir Storage (1000	IVER & TOOR	of March		l I	UTAH LAKE, Watershed S	JORDAN RIVER nowpack Analys	& TOOELE VA	LLEY 1, 2007
Reservoir	Usable   Capacity	*** Usabl This Year	e Storage * Last	**     Water vg	shed	Numbe of Data Si	This ===== tes Last	Year as % of ====================================

Reservoir Storage (1	1000 AF) - End	of March	1	11	watershed showpack A	marysrs -	APILI I,	2007
Reservoir	Usable   Capacity	*** Usa This Year	able Storag Last Year	Avg	Watershed Di	Number of ata Sites		r as % of Average
DEER CREEK	149.7	147.9	128.2	113.0	PROVO RIVER & UTAH LAKE	7	34	40
GRANTSVILLE	3.3	3.2	2.9	2.7	PROVO RIVER	4	36	43
SETTLEMENT CREEK	1.0	0.9	0.8	0.7	JORDAN RIVER & GREAT SAL	r 6	39	60
STRAWBERRY-ENLARGED	1105.9	932.1	841.2	648.8	TOOELE VALLEY WATERSHEDS	3	45	49
UTAH LAKE	870.9	922.0	912.0	855.8	UTAH LAKE, JORDAN RIVER	§ 16	38	50
VERNON CREEK	0.6	0.5	0.5	¦				

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

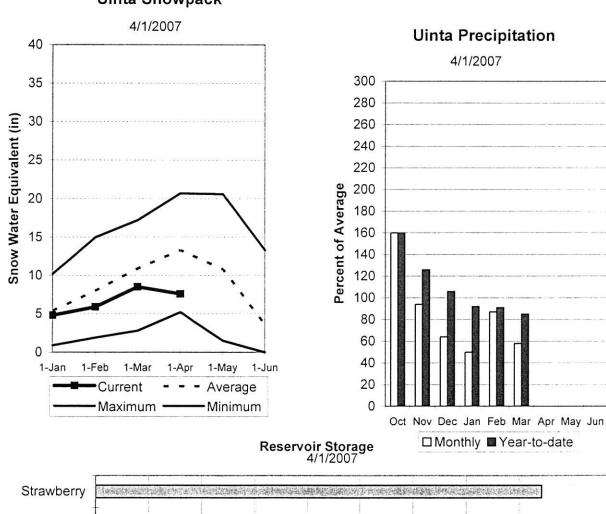
^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

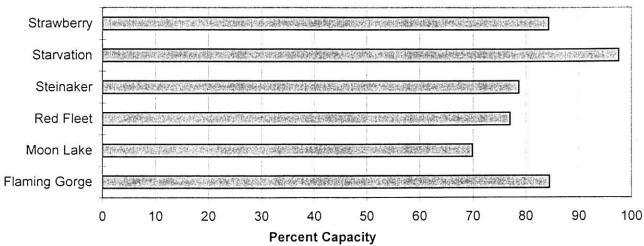
(2) - The value is natural volume - actual volume may be affected by upstream water management.

### Uintah Basin and Dagget SCD's April 1, 2007

Snowpack across the Uintas is much below average at 57%, which is just 49% of last year. This is the worst April 1 snowpack on the Uintas since 1977! Individual sites on the North Slope range from 56% to 97% and the South Slope ranges from 0% to 90% of average. Precipitation during March was much below average at 58% bringing the seasonal accumulation (Oct-Mar) to 85% of average. Soil moisture values in runoff producing areas are at 61% of saturation in the upper 2 feet of soil compared to 36% last year. Reservoir storage is at 86% of capacity, 8% more than last year. Streamflow forecasts range from 17% to 69% of average. The Surface Water Supply Index for the western area is 67% and for the eastern area it is 28% indicating above normal conditions on the west side and much below normal for the eastern area. General water supply conditions range from above average on the west side thanks to excellent reservoir carryover to much below average in the east as a result of record to near record low snowpack.

### **Uinta Snowpack**





### UINTAH BASIN & DAGGET SCD'S Streamflow Forecasts - April 1, 2007

		<<=====	Drier ====	= Future Co	nditions =	Wetter		
Forecast Point	Forecast Period	90% (1000AF)	70% (1000AF)	50   (1000AF)	% (% AVG.)	30%   (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Blacks Fork nr Robertson	APR-JUL	44	56	65	68	. 75	90	95
EF of Smiths Fork nr Robertson	APR-JUL	11.9	16.5	20	69	1 24	30	29
Flaming Gorge Reservoir Inflow (2)	APR-JUL	256	405	1   525	44	   661	889	1190
Big Brush Ck abv Red Fleet Resv	APR-JUL	8.5	11.8	14.3	68	17.1	22	21
Ashley Creek nr Vernal	APR-JUL	17.8	25	30	58	36	45	52
WF Duchesne River nr Hanna (2)	APR-JUL	5.2	7.9	10.0	42	12.4	16.4	24
Duchesne R nr Tabiona (2)	APR-JUL	22	32	l I 40	38	l I 49	63	105
Upper Stillwater Resv Inflow	APR-JUL	33	40	45	55	l   51	60	82
Rock Ck nr Mountain Home (2)	APR-JUL	35	43	)   50	56	l I 57	68	89
Duchesne R abv Knight Diversion (2)	APR-JUL	54	72	86	46	l l 101	125	188
Strawberry R nr Soldier Springs (2)	APR-JUL	2.5	7.0	11.5	20	! ! 17.1	27	59
Currant Creek Reservoir Inflow (2)	APR-JUL	2.5	3.9	7.0	28	11.0	18.5	25
Strawberry R nr Duchesne (2)	APR-JUL	6.0	12.0	20	17	l I 30	48	121
Lake Fork River Moon Lake Inflow	APR-JUL	26	33	38	56	l   44	52	68
Yellowstone River nr Altonah	APR-JUL	23	30	36	58	l   42	52	62
Duchesne R at Myton (2)	APR-JUL	18.0	45	70	27	101	157	260
Whiterocks near Whiterocks	APR-JUL	17.9	26	32	57	l I 39	50	56
Duchesne R nr Randlett (2)	APR-JUL	17.0	49	80	25	119	190	324

N & DAGGET SCD'S DO AF) - End of Ma	rch				2007
Capacity  This	Jsable Storage *** Last Year Avg	Watershed	of	This Year	
3749.0 3166.	3022.0 2920.0	UPPER GREEN RIVER in UTAH	6	68	65
49.5 34.	5 27.4 30.6	ASHLEY CREEK	2	51	45
25.7 19.	3 22.9 18.6	BLACK'S FORK RIVER	2	66	68
33.4 26.	3 33.2 24.2	SHEEP CREEK	1	107	78
165.3 161.	3 139.6 138.6	DUCHESNE RIVER	11	44	54
1105.9 932.	L 841.2 648.8	LAKE FORK-YELLOWSTONE CRE	4	55	66
		STRAWBERRY RIVER	4	25	33
		UINTAH-WHITEROCKS RIVERS	2	72	81
		UINTAH BASIN & DAGGET SCD	17	49	57
	Usable   *** (Capacity  This   Year   3749.0   3166.0   49.5   34.0   25.7   19.8   33.4   26.3   165.3   161.3	Usable   *** Usable Storage *** Capacity  This Last   Year Year Avg  3749.0 3166.0 3022.0 2920.0 49.5 34.6 27.4 30.8 25.7 19.8 22.9 18.8 33.4 26.3 33.2 24.2 165.3 161.3 139.6 138.6	Usable   *** Usable Storage ***   Watershed Snowpack And Capacity   This Last   Watershed   Watershed   Darward   Watershed   Year Year Avg   Darward   Watershed   Darward   Watershed   Watershed   Darward   Watershed   Watershed   Darward   Watershed   Watershed   Darward   Watershed   Watershed   Darward   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershed   Watershe	Watershed Snowpack Analysis	Usable   *** Usable Storage ***   Watershed Snowpack Analysis - April 1, 2  Usable   *** Usable Storage ***   Watershed

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

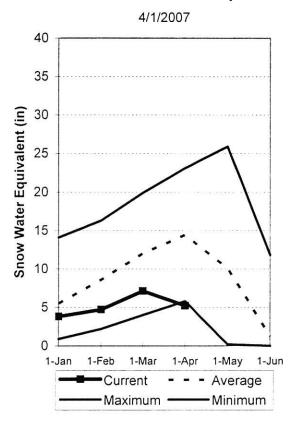
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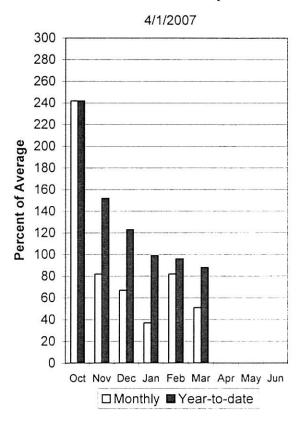
### Carbon, Emery, Wayne, Grand and San Juan Co. April 1, 2007

Snowpacks in this region are much below normal at 36% of average, about 35% of last year. Individual sites range from 0% to 98% of average, with Boulder Mountain and the Aquarius Plateau being the best of the worst. This is the worst April 1 snowpack in the 36 years of record for this area, with only two years having a greater March snowpack decrease. Precipitation during March was much below average at 51%, bringing the seasonal accumulation (Oct-Mar) to 88% of normal. Soil moisture estimates in runoff producing areas are at 73% of saturation in the upper 2 feet of soil compared to 44% last year and up 25% from last month, due to early snowmelt. Forecast streamflows range from 4% to 68% of average. Reservoir storage is at 69% of capacity, up 5% from last year at this time. Surface Water Supply Indices for the area are: Price 28%, San Rafael area 11% and Moab 18%. General runoff and water supply conditions are much below normal.

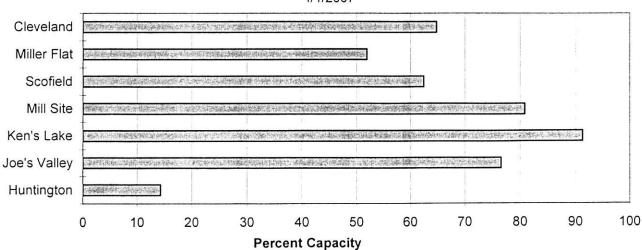
### Southeast Utah Snowpack



### Southeast Utah Precipitation



Reservoir Storage 4/1/2007



### CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co. Streamflow Forecasts - April 1, 2007

		Streamflow	Forecast	s - Ap	ril 1, 20	007				
		<<=====	Drier ==		Future Co	onditions ==	Wett	er ====	=>>	
Forecast Point		90% (1000AF)	70% (1000AF)	1	ance Of E 50 (1000AF)	Exceeding * == )%   (% AVG.)	30% (1000AF	10	 %   OAF)	30-Yr Avg. (1000AF)
Gooseberry Creek nr Scofield	APR-JUL	2.5	3.6	 	4.5	38	5.5	7	. 1	11.9
Price River near Scofield Reservoir	APR-JUL	4.5	8.6	I	16.0	36	23		34	45
White River blw Tabbyune Creek	APR-JUL	1.4	2.8	ļ	3.9	23	5.2	7	. 6	17.3
Green River at Green River, UT (2)	APR-JUL	540	950	-	1400	44	1850	25	10	3170
Huntington Ck Inflow to Electric Lk	APR-JUL	2.5	3.9	ļ	5.0	32	6.3	8	. 3	15.7
Huntington Ck nr Huntington	APR-JUL	2.5	7.7	ļ	16.0	33	24		36	49
Joe's Valley Resv Inflow	APR-JUL	12.8	17.3	-	22	38	27		36	58
Ferron Ck (Upper Station) nr Ferron	APR-JUL	9.4	12.9	!	15.5	40	18.4		23	39
Colorado River Near Cisco (2)	APR-JUL	1190	2360	ì	3150	68	3950	51	20	4650
Mill Creek at Sheley Tunnel nr Moab	APR-JUL	1.1	1.3	i	1.6	32	1.9	2	. 5	5.0
Seven Mile Ck nr Fish Lake	APR-JUL	2.5	2.8	i	3.5	50	4.2	5	. 4	7.0
Muddy Creek nr Emery	APR-JUL	3.9	5.7	į	7.2	36	8.8	11	. 5	19.9
North Ck ab R.S. nr Monticello	MAR-JUL APR-JUL	0.0	0.0	i	0.1	7	0.1 0.1		. 2	0.8
South Ck ab Lloyd's Res nr Monticell	MAR-JUL APR-JUL	0.0	0.1	   	0.1	9 I 7 I	0.2		. 4 . 3	1.4 1.3
Recapture Ck Bl Johnson Ck nr Blandi	MAR-JUL APR-JUL	0.1 0.1	0.4 0.3	 	0.7	14   13	1.1		. 1	5.0 4.5
San Juan River near Bluff (2)	APR-JUL	320	490	1 1 1	680	55   	785	10	50	1230
CARBON, EMERY, WAYNE, Reservoir Storage (1000	GRAND, & AF) - End	SAN JUAN Co	).		1 0	ARBON, EMERY, Watershed Sno	WAYNE, GR	AND, & . ysis	SAN JUAN April 1	, 2007
Reservoir	Usable   Capacity	*** Usabl This Year	e Storage Last Year	*** Avg	   Water 	shed	Num o Data	ber f Sites	This Ye	ear as % of
HUNTINGTON NORTH	4.2	0.6	4.2	3.9		RIVER		3	34	38
JOE'S VALLEY	61.6	47.2	46.3	41.4	I SAN R	AFAEL RIVER		3	32	40
CEN'S LAKE	2.3	2.1	2.2	1.4	I MUDDY	CREEK		1	21	27
MILL SITE	16.7	13.5	9.2	86.2	   FREMO	NT RIVER		3	67	56
SCOFIELD	65.8	41.1	34.7	34.7	   LASAL	MOUNTAINS		1	37	32
					   BLUE	MOUNTAINS		1	4	2
					WILLO	W CREEK		1	17	8
					I CARBO	N, EMERY, WAY	NE, GRA 1	3	35	36
					1					

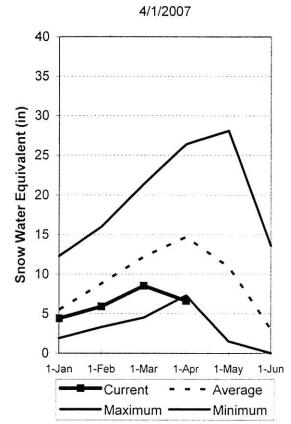
^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table. The average is computed for the 1971-2000 base period.

The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 The value is natural volume - actual volume may be affected by upstream water management.

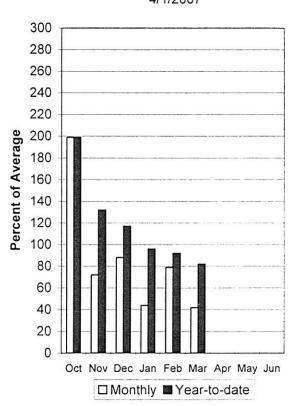
### Sevier and Beaver River Basins April 1, 2007

Snowpacks on the Sevier River Basin are much below normal at 45% of average, about 46% of last year and down 24% relative to last month. Individual sites range from 0% to 88% of average. This is a new record low April 1 snowpack for the watershed. Precipitation during March was much below average at 42% of normal, bringing the seasonal accumulation (Oct-Mar) to 82% of average. Soil moisture estimates in runoff producing areas are at 69% of saturation in the upper 2 feet of soil compared to 59% last year. Streamflow forecasts range from 13% to 52% of average. Reservoir storage is at 88% of capacity, 10% less than last year. Surface Water Supply Indices are: Upper Sevier 42%, Lower Sevier 43% and Beaver 19%. Water supply conditions are near to much below average due to reservoir storage but with poor streamflow expected

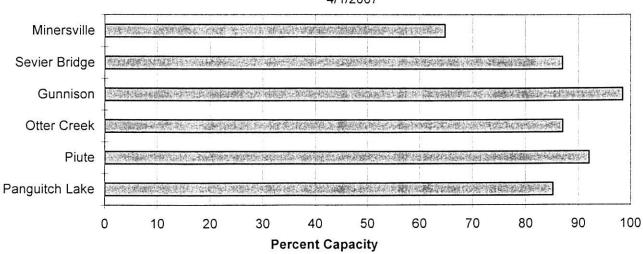




### Sevier River Precipitation 4/1/2007



Reservoir Storage



### SEVIER & BEAVER RIVER BASINS Streamflow Forecasts - April 1, 2007

**************************************		<<======	Drier ==		Future Co	onditions ==	Wette	r ====>>	
Forecast Point	Forecast Period	90% (1000AF)	70% (1000AF)	I I	50 (1000AF)	)% (% AVG.)	30%   (1000AF)	10% (1000AF)	   30-Yr Avg.   (1000AF)
Sevier River at Hatch	APR-JUL	11.4	16.2	!	20	36	24	31	55
Sevier River nr Kingston	APR-JUL	28	38	ļ	46	52	54	68	89
EF Sevier R nr Kingston	APR-JUL	4.6	9.7	İ	14.2	37	19.6	29	38
Sevier R blw Piute Dam	APR-JUL	18.0	36	ļ	52	41	71	104	126
Clear Creek Abv Diversions Nr Sevier	APR-JUL	5.0	6.5	ļ	7.8	36	9.3	12.2	22
Salina Creek at Salina	APR-JUL	0.3	2.3	į	4.8	24	8.2	14.9	19.7
Manti Ck Blw Dugway Ck Nr Manti	APR-JUL	5.5	7.6	į	9.2	50	11.0	13.8	18.3
Sevier R nr Gunnison	APR-JUL	85	103	i	116	41	190	300	280
Chicken Creek nr Levan	APR-JUL	0.1	0.6	ļ	1.1	24	1.8	3.1	4.5
Oak Creek nr Oak City	APR-JUL	0.1	0.3		0.4	27	0.6	0.9	1.7
Beaver River nr Beaver	APR-JUL	4.1	6.8		9.1	34	11.7	16.1	27
Minersville Reservoir inflow	APR-JUL	0.2	0.9		2.1	13	   4.0	7.6	16.6
SEVIER & BEAVE Reservoir Storage (1000	R RIVER BAS AF) - End	SINS of March			 	SEVIER Watershed Sr	R & BEAVER RI nowpack Analy	VER BASINS	L 1, 2007
Reservoir	Usable   Capacity	*** Usabl This Year	e Storage Last Year	*** Avg	   Water 	rshed	Numb of Data S	er This	Year as % of
GUNNISON	20.3	16.9	20.3	16.3	A comment	SEVIER RIVE			43
MINERSVILLE (RkyFd)	23.3	15.1	23.0	17.9	EAST	FORK SEVIER	RIVER 3	47	43
OTTER CREEK	52.5	45.7	52.5	43.5	SOUTH	FORK SEVIER	R RIVER 5	48	43
PIUTE	71.8	66.1	66.3	58.5	LOWER	R SEVIER RIVE	ER (inclu 6	42	43

152.9 |

SEVIER & BEAVER RIVER BAS 16

47

45

236.0 205.3 234.9 189.7 | BEAVER RIVER

19.7

The average is computed for the 1971-2000 base period.

SEVIER BRIDGE

PANGUITCH LAKE

19.0

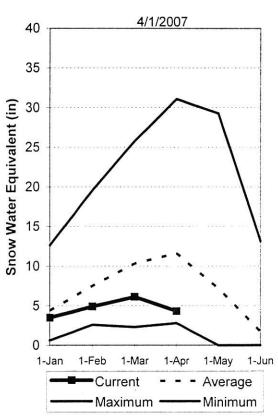
^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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 The value is natural volume - actual volume may be affected by upstream water management.

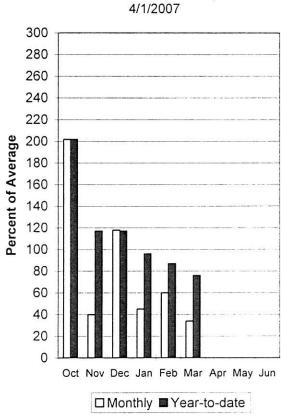
### E. Garfield, Kane, Washington, & Iron Co. April 1, 2007

Snowpacks in this region are much below normal at 37% of average, about 43% of last year and down 22% relative to last month. Individual sites range from 0% to 98% of average. Precipitation in the month of March was much below average at 34%, bringing the seasonal accumulation (Oct-Mar) to 76% of average. Soil moisture estimates in runoff producing areas are at 66% of saturation in the upper 2 feet of soil compared to 50% last year. Forecast streamflows range from 20% to 36% of average. Reservoir storage is at 85% of capacity, 8% less than last year. The Surface Water Supply Index is at 29%, indicating much below average water supply conditions.

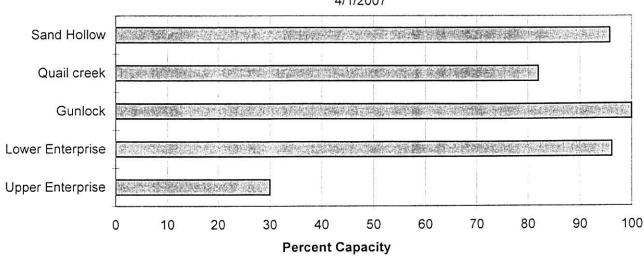




### Southwest Utah Precipitation



### Reservoir Storage 4/1/2007



### E. GARFIELD, KANE, WASHINGTON, & IRON Co. Streamflow Forecasts - April 1, 2007

		<<======	Drier ====	= Future Co	onditions ===	Wetter	====>>	
Forecast Point	Forecast Period	90% (1000AF)	70%   (1000AF)	Chance Of E 50 (1000AF)	Exceeding * == )%   (% AVG.)	30% (1000AF)	10%   (1000AF)	30-Yr Avg. (1000AF)
Lake Powell Inflow (2)	APR-JUL	1450	2970	4000	50	5030	6550	7930
Virgin River at Virgin	APR-JUL	16.6	19.2	23	36	26	34	64
rirgin River near Hurricane	APR-JUL	13.8	17.3 I	21	30	28	35	69
anta Clara River nr Pine Valley	APR-JUL	0.4	0.8	1.1	20	1.6	2.5	5.5
oal Creek nr Cedar City	APR-JUL	4.4	6.5	8.2	43	10.1	13.1	19.3
E. GARFIELD, KANE, Reservoir Storage (100			İ		E. GARFIELD, Watershed Sno	얼마 아이들의 얼마를 그 시간에 맛있다면 다 먹다.	[[양양][[양양][[양양]] [[양양][[양양]	

Reservoir	Usable     Capacity		able Storage Last	***	Watershed	Number of	Market Street, St. Lond. And B. Chall.	r as % of
		Year	Year	Avg	1	ata Sites	Last Yr	Average
GUNLOCK	10.4	10.4	10.4	4.5	VIRGIN RIVER	5	35	31
AKE POWELL	24322.0	11617.0	10710.0	!	PAROWAN	2	50	51
QUAIL CREEK	40.0	32.8	37.1	31.0	ENTERPRISE TO NEW HARMON	Y 2	0	0
PPER ENTERPRISE	10.0	3.0	10.0	!	COAL CREEK	2	34	36
OWER ENTERPRISE	2.6	2.5	1.1	137.1	ESCALANTE RIVER	2	78	73
				1	E. GARFIELD, KANE, WASH	n 9	45	37

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

WATER	SUPPLY	INDEX
NRCS	USDA	
SWSI/%	Percentile	Years with
		Similar SWSI
-2.43	21%	95,02,06,90
-2.62	19%	01,81,90,04
-3.15	12%	03,92,02,90
-0.17	48%	78,88,79,00
1.39	67%	87,86,00,01
-1.87	28%	03,81,91,88
-1.83	28%	03,89,05,98
-3.24	11%	94,90,89,92
-2.68	18%	90,89,03,01
-0.60	42%	78,96,71,76
-0.60	43%	91,68,76,89
-2.60	19%	72,03,76,64
-1.74	29%	02,04,96,85
		SWSI Scale: -4 to 4
		Percentile: 0 - 100%
	NRCS SWSI/% -2.43 -2.62 -3.15 -0.17 1.39 -1.87 -1.83 -3.24 -2.68 -0.60 -0.60 -2.60	NRCS USDA SWSI/% Percentile  -2.43 21% -2.62 19% -3.15 12% -0.17 48% 1.39 67% -1.87 28% -1.83 28% -3.24 11% -2.68 18% -0.60 42% -0.60 43% -2.60 19%

### What is a Surface Water Supply Index?

The Surface Water Supply Index (SWSI) is a predictive indicator of total surface water availability within a watershed for the spring and summer water use seasons. The index is calculated by combining pre-runoff reservoir storage (carryover) with forecasts of spring and summer streamflow which are based on current snowpack and other hydrologic variables. SWSI values are scaled from +4.1 (abundant supply) to -4.1 (extremely dry) with a value of zero (0) indicating median water supply as compared to historical analysis. SWSI's are calculated in this fashion to be consistent with other hydroclimatic indicators such as the Palmer Drought Index and the Precipitation index.

Utah Snow Surveys has also chosen to display the SWSI as a PERCENT CHANCE OF NON-EXCEEDANCE. While this is a very cumbersome name, it has the simplest application. It can be best thought of as a simple scale of 1 to 99 with 1 being the drought of record (driest possible conditions) and 99 being the flood of record (wettest possible conditions) and a value of 50 representing average conditions. This rating scale is a percentile rating as well, for example a SWSI of 75% means that this years water supply is greater than 75% of all historical events and that only 25% of the time has it been exceeded. Conversely a SWSI of 10% means that 90% of historical events have been greater than this one and that only 10% have had less total water supply. This scale is far more intuitive for most people and is totally comparable between basins: a SWSI of 50% means the same relative ranking on watershed A as it does on watershed B, which may not be strictly true of the +4 to -4 scale.

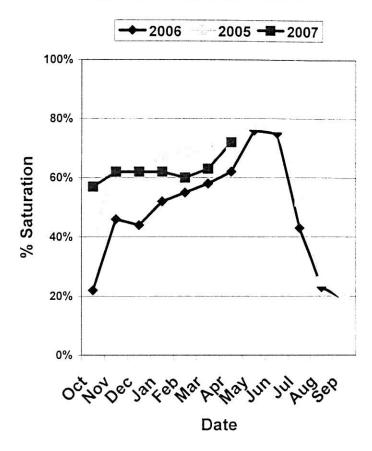
For more information on the SWSI go to:  $\frac{www.ut.nrcs.usda.gov/snow/}{}$  on the water supply page. The entire period of historical record for reservoir storage and streamflow is available.

### Watershed Soil Moisture Charts for Utah Water Supply

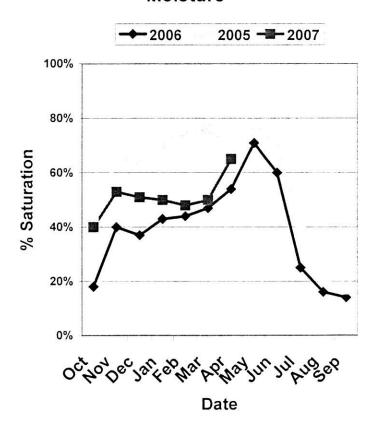
### **Bear River Soil Moisture**

# 2006 2005 — 2007 100% 80% 40% 20% Ochobe yare war policy or yuhugep Date

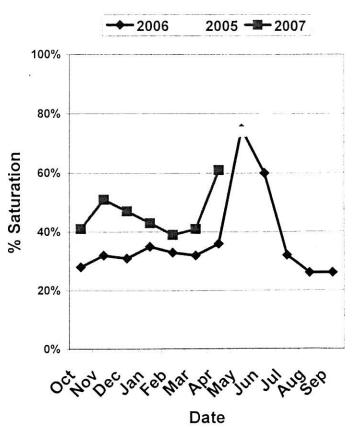
### Weber River Soil Moisture



Jordan/Provo River Soil Moisture

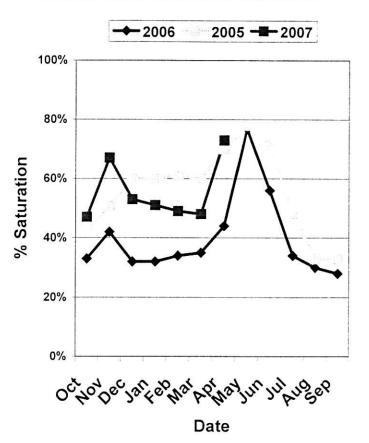


**Uintah Basin Soil Moisture** 

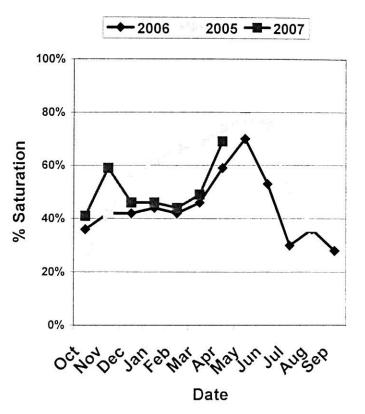


### Watershed Soil Moisture Charts for Utah Water Supply

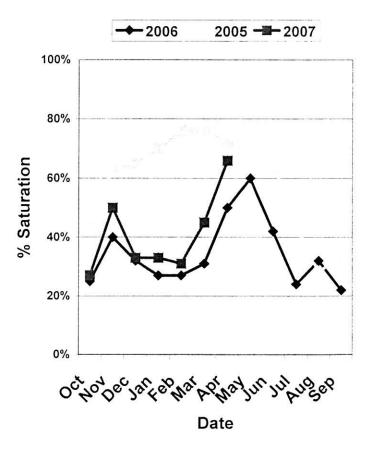
### South East Utah Soil Moisture



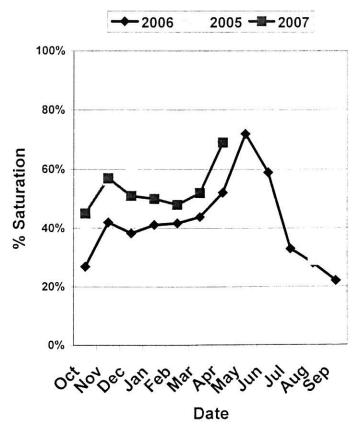
# Sevier/Beaver River Soil Moisture



### Southwest Utah Soil Moisture



### Statewide Soil Moisture



### SNOW COURSE DATA

APRIL 2007

		DATE	DEPTH	CONTENT	YEAR	71-00
AGUA CANYON SNOTEL ALTA CENTRAL BEAVER DAMS SNOTEL BEAVER DIVIDE SNOTEL BEN LOMOND PK SNOTEL BEN LOMOND TR SNOTEL BEVAN'S CABIN BIG FLAT SNOTEL BIRCH CROSSING BLACK FLAT-U.M. CK S BLACK'S FORK GS-EF BLACK'S FORK JUNCTN BOX CREEK SNOTEL BRIGHTON SNOTEL BRIGHTON SNOTEL BRIGHTON CABIN BROWN DUCK SNOTEL	8900	4/01	0	. 0	8.8	7.1
ALTA CENTRAL	8800	3/30	66	23.7	56.3	37.3
BEAVER DAMS SNOTEL	8000	4/01	2	4	12.2	10.5
BEAVER DIVIDE SNOTEL	8280	4/01	5	1.1	14.4	10.6
BEN LOMOND PK SNOTEL	8000	4/01	43	18 8	53.2	41 5
BEN LOMOND TR SNOTEL	6000	4/01	3	1 0	26.1	19.5
BEVAN'S CABIN	6450	3/29	23	4 9	11 1	11 6
BIG FLAT SNOTEL	10290	4/01	46	11 9	17.3	19.0
BIRCH CROSSING	8100	3/29	16	2.5	6.7	5 4
BLACK FLAT-U M CK S	9400	4/01	6	2.3	10.9	10.3
BLACK'S FORK GS-EF	9340	3/30	16	4 2	10.3	9.7
BLACK'S FORK HINCTN	8930	3/30	16	4.6	10.1	9.7
BOX CREEK SNOTEL	9800	4/01	19	7.4	14.0	13.7
BRIAN HEAD	10000	3/29	44	11 9	17.2	21 1
BRIGHTON SNOTEL	8750	4/01	30	14.2	33 7	25 4
BRIGHTON CARIN	9700	3/20	52	15 0	35.7	27.9
BROWN DUCK SNOTEL	10600	4/01	52	13.9	20.2	10.0
BROWN BOCK SHOTEL	9000	3/20	22	13.9	23.1	2.2
BLICK FLAT CHOTEL	0000	4/01	21	0.0	22.0	3.0
BUCK PACHURE	9700	3/30	20	11 =	23.9	16.7
BUCK PASTURE	9700	3/30	17	11.5	20.2	10.9
BUCKBOARD FLAT	7050	3/23	17	5.4	9.2	12.4
BUG LAKE SNOTEL	7950	4/01	43	13.3	25.6	21.2
BURT'S-MILLER RANCH	7900	3/30	0	0.0	6.0	4.9
CAMP JACKSON SNOTEL	8600	4/01	1	. 3	8.1	13.6
CASCADE MOUNTAIN SNO	7770	4/01	33	10.2	23.0	
CASTLE VALLEY SNOTEL	9580	4/01	20	6.3	15.5	14.6
CHALK CK #1 SNOTEL	9100	4/01	50	19.0	29.7	24.9
CHALK CK #2 SNOTEL	8200	4/01	39	13.8	16.7	16.2
CHALK CREEK #3	7500	3/30	4	1.0	8.4	6.9
CHEPETA SNOTEL	10300	4/01	36	12.8	15.7	14.2
CLAYTON SPRINGS SNTL	10000	4/01	14	6.8	12.8	
CLEAR CK RIDG #1 SNT	9200	4/01	26	8.1	24.3	19.7
CLEAR CK RIDG #2 SNT	8000	4/01	28	8.1	17.6	14.7
BRIGHTON CABIN BROWN DUCK SNOTEL BRYCE CANYON BUCK FLAT SNOTEL BUCK FASTURE BUCK PASTURE BUCK PASTURE BUCK PASTURE BUCK PASTURE BUCK PASTURE BUCK PASTURE BUCK PASTURE BUCK PASTURE CHALK SNOTEL CASCADE MOUNTAIN SNO CASTLE VALLEY SNOTEL CHALK CK #1 SNOTEL CHALK CK #2 SNOTEL CHALK CREEK #3 CHEPETA SNOTEL CLAYTON SPRINGS SNTL CLEAR CK RIDG #1 SNT CLEAR CK RIDG #2 SNT CORRAL CURRANT CREEK SNOTEL DANIELS-STRAWBERRY S DILL'S CAMP SNOTEL DONKEY RESERVOIR SNO DRY BREAD POND SNTL DRY FORK SNOTEL EAST WILLOW CREEK SN FARMINGTON U. SNOTEL FARMINGTON L. SNOTEL FARNSWORTH LK SNOTEL FISH LAKE	8200	3/30	4	0.5	5.5	9.0
CURRANT CREEK SNOTEL	8000	4/01	=1	. 0	14.4	10.2
DANIELS-STRAWBERRY S	8000	4/01	17	5.2	24.7	16.7
DILL'S CAMP SNOTEL	9200	4/01	13	4.0	19.1	14.9
DONKEY RESERVOIR SNO	9800	4/01	30	8.5	6.0	8.7
DRY BREAD POND SNTL	8350	4/01	33	10.3	25.6	22.6
DRY FORK SNOTEL	7160	4/01	28	9.6	17.7	18.2
EAST WILLOW CREEK SN	8250	4/01	4	. 7	4.1	8.3
FARMINGTON U. SNOTEL	8000	4/01	67	20.9	53.2	34.3
FARMINGTON L. SNOTEL	6780	4/01	20	6.6	28.7	120
FARNSWORTH LK SNOTEL	9600	4/01	59	17.3	18.1	19.6
FISH LAKE	8700	3/30 4/01 3/30 3/30	4	0.4	6.8	8.8
11.0 1010 11.0		4/01	36	12.0	22.5	17.7
G.B.R.C. HEADQUARTER		3/30	26	7.3	18.5	16.6
G.B.R.C. MEADOWS	10000	3/30	48	13.9	29.2	24.0
GARDEN CITY SUMMIT	7600	3/29	36	9.4	19.9	16.2
GARDNER PEAK SNOTEL		4/01	17	6.0	12.3	-
GEORGE CREEK	8840	3/29	45	13.6	27.2	22.3
GOOSEBERRY R.S.	8400	3/30	23	6.9	11.1	12.0
GOOSEBERRY R.S. SNTL	7900	4/01	=	. 0	8.5	8.7
GUTZ PEAK SNOTEL	6820	4/01	0	0.0	3.6	_
HARDSCRABBLE SNOTEL	7250	4/01	23	7.9	30.9	20.2
HARRIS FLAT SNOTEL	7700	4/01	0	0.0	2.8	6.7
HAYDEN FORK SNOTEL	9100	4/01	18	5.9	21.9	16.6
HENRY'S FORK	10000	3/30	39	11.7	17.3	14.0
HEWINTA SNOTEL	9500	4/01	20	6.8	13.1	12.1
HICKERSON PARK SNTL	9100	4/01	27	6.0	5.6	7.7
HIDDEN SPRINGS	5500	3/27	0	0.0	7.2	2.4
HOBBLE CREEK SUMMIT	7420	3/30	18	5.1	18.5	13.9
HOLE-IN-ROCK SNOTEL	9150	4/01	22	7.0	7.8	7.2
HORSE RIDGE SNOTEL	8260	4/01	33	11.6	29.5	23.9
HUNTINGTON-HORSESHOE	9800	3/30	39	12.1	28.8	24.0
INDIAN CANYON SNOTEL	9100	4/01	12	5.0	12.8	11.9
JOHNSON VALLEY	8850	3/30	2	0.2	8.4	7.1
JONES CORRAL G.S.	9720	3/30	37	9.1	9.0	12.5

		DATE	DEPTH	CONTENT	YEAR	71-00
KILFOIL CREEK KILLYON CANYON KIMBERLY MINE SNOTEL KING'S CABIN SNOTEL KLONDIKE NARROWS KOLOB SNOTEL LAKEFORK #1 SNOTEL LAKEFORK BASIN SNTL LAKEFORK MOUNTAIN #3 LAMBS CANYON LASAL MOUNTAIN LOWER	7300	3/29	33	8 6	18 7	14.4
KILLYON CANYON	6300	3/30	0	0.0	10.7	5.6
KIMBERLY MINE SNOTEL	9300	4/01	24	8.6	15.9	16.7
KING'S CABIN SNOTEL	8730	4/01	13	3.0	9.8	11.3
KLONDIKE NARROWS	7400	3/29	25	8.5	27.4	19.2
KOLOB SNOTEL	9250	4/01	25	8.3	20.8	23.9
LAKEFORK #1 SNOTEL	10100	4/01	28	8.7	13.2	12.7
LAKEFORK MOUNTAIN #3	10900	4/01	49	11.3	24.9	20.7
LAMBS CANYON	7400	3/30	20	0.4	7.6	6.0
LASAL MOUNTAIN LOWER	8800	3/27	3	1.2	7.8	9.8
LAMES CANYON LASAL MOUNTAIN LOWER LASAL MOUNTAIN SNTL LIGHTNING RIDGE SNTL LILY LAKE SNOTEL LITTLE BEAR LOWER LITTLE BEAR SNOTEL LITTLE GRASSY SNOTEL LONG FLAT SNOTEL LONG VALLEY JCT. SNT LOOKOUT PEAK SNOTEL LOST CREEK RESERVOIR LOUIS MEADOW SNOTEL MARMOTH-COTTONWD SNT MERCHANT VALLEY SNTL MIDDLE CANYON	9850	4/01	14	4.3	11.7	13.5
LIGHTNING RIDGE SNTL	8220	4/01	29	10.3	24.7	-
LILY LAKE SNOTEL	9050	4/01	30	10.2	15.5	13.5
LITTLE BEAR LOWER	6000	3/29	9	1.2	14.0	9.5
LITTLE BEAR SNOTEL	6550	4/01	2	1.0	13.8	12.3
LONG FLAT SNOTEL	9100	4/01	-	. 0	.0	. 7
LONG VALLEY JCT SNT	7500	4/01		. 0	4.9	7.5
LOOKOUT PEAK SNOTEL	8200	4/01	52	19.4	41 7	24.3
LOST CREEK RESERVOIR	6130	3/29	0	0.0	6.1	2.0
LOUIS MEADOW SNOTEL	6700	4/01	8	5.1	28.1	-
MAMMOTH-COTTONWD SNT	8800	4/01	22	7.6	23.1	21.0
MERCHANT VALLEY SNTL	8750	4/01	21	6.6	13.6	13.4
MIDDLE CANYON	7000	3/29	15	3.2	14.7	14.0
MIDWAY VALLEY SNOTEL	9800	4/01	40	13.9	25.0	25.3
MILL-D NORTH SNOTEL	8960	4/01	30	12.5	24.5	20.6
MIDDLE CANYON MIDWAY VALLEY SNOTEL MILL CREEK MILL-D NORTH SNOTEL MILL-D SOUTH FORK	7400	3/29	30	7 9	27.0	25.5
MINING FORK SNOTEL	8000	4/01	34	12.2	26.5	21.0
MINING FORK SNOTEL MONTE CRISTO SNOTEL	8960	4/01	53	18.9	36.5	30.1
MOSBY MTN. SNOTEL MT.BALDY R.S. MUD CREEK #2	9500	4/01	28	8.4	13.6	12.1
MT.BALDY R.S.	9500	3/30	51	14.3	27.4	24.1
MUD CREEK #2 OAK CREEK	8600	3/30	33	8.2	20.0	13.5
OAK CREEK PANGUITCH LAKE R.S.	7760	3/30 3/27	31	7.8	13.0	12.0
PARLEY'S CANYON SNTI.	7500	4/01	18	6.1	22.7	4.0
PARLEY'S CANYON SNTL PARRISH CREEK SNOTEL	7740	4/01	47	16.8	.9 41.7 6.1 28.1 23.1 13.6 14.7 25.0 24.5 35.9 27.0 26.5 36.5 13.6 27.4 20.0 13.0 3.1 22.7 34.2 20.9 22.4 21.4 23.1 21.1 12.9 12.2 26.0	17.1
PAYSON R.S. SNOTEL PICKLE KEG SNOTEL PINE CREEK SNOTEL RED PINE RIDGE SNTL REDDEN MINE LOWER REES'S FLAT ROCK CREEK SNOTEL	8050	4/01	11	3.2	20.9	20.6
PICKLE KEG SNOTEL	9600	4/01	22	7.0	22.4	17.9
PINE CREEK SNOTEL	8800	4/01	38	11.8	21.4	24.8
RED PINE RIDGE SNTL	9200	4/01	15	6.6	23.1	17.3
REDDEN MINE LOWER	8500	3/29	27	9.0	21.1	17.8
POCK CREEK SNOWET	7300	3/30	15	4.2	12.9	12.6
ROCKY BN-SETTLEMT SN	8900	4/01	35	13.4	26.0	26.5
SEELEY CREEK SNOTEL	10000	4/01 4/01 4/01	16	5 7	26.0 16.4 16.6	15 3
SMITH MOREHOUSE SNTL	7600	4/01	25	8.3	16.6	14.0
SNOWBIRD SNOTEL	9700	4/01	66	25.8	58.5	35.8
SPIRIT LAKE	10300	3/30	47	11.4	11.7	13.8
SQUAW SPRINGS	9300	3/30	4	0.4	8.6	7.1
STEEL CREEK PARK SNO		4/01	40	12.3	16.0	15.9
STILLWATER CAMP STRAWBERRY DIVIDE SN	8550 8400	3/30 4/01	17 25	5.2 8.6	10.4 23.7	10.5
SUSC RANCH	8200	3/27	0	0.0	5.7	18.7 7.0
TALL POLES	8800	3/29	37	8.1	12.5	14.7
TEMPLE FORK SNOTEL	7410	4/01	36	10.2	23.4	
THAYNES CANYON SNTL	9200	4/01	48	16.9	33.3	24.9
THISTLE FLAT	8500	3/30	31	9.8	19.8	16.9
TIMBERLINE	9100	3/30	10	2.2	8.2	14.7
TIMPANOGOS DIVIDE SN TONY GROVE LK SNOTEL	8140	4/01	33	10.3	26.3	24.0
TONY GROVE R.S.	8400 6250	4/01 3/29	56 7	23.1 1.8	56.0 15.7	37.7 11.1
TRIAL LAKE	9960	3/29	59	17.0	30.1	24.2
TRIAL LAKE SNOTEL	9960	4/01	44	16.3	30.6	25.3
TROUT CREEK SNOTEL	9400	4/01	22	7.2	10.2	11.2
UPPER JOES VALLEY	8900	3/30	7	1.3	13.6	9.9
VERNON CREEK SNOTEL	7500	4/01	13	3.2	11.9	11.7
VIPONT	7670	3/29	28	6.8	22.4	15.4
WEBSTER FLAT SNOTEL WHITE RIVER #1 SNTL	9200	4/01	1	. 8	18.6	15.9
WHITE RIVER #1 SNTL	8550 7400	4/01 3/30	13 0	4.7	13.0 11.6	13.5 6.1
WIDTSOE #3 SNOTEL	9500	4/01	18	7.2	10.0	12.8
WRIGLEY CREEK	9000	3/30	17	3.8	12.6	11.3
YANKEE RESERVOIR	8700	3/29	21	4.0	9.7	10.0





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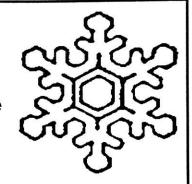
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Snow Survey, NRCS, USDA 245 North Jimmy Doolittle Road Salt Lake City, UT 84116 (801) 524-5213



# Utah Water Supply Outlook Report

Natural Resources Conservation Service Salt Lake City, UT





# Utah Water Supply Outlook Report

May 1, 2007



East Fork of Blacks Fork Snow Course, May of 2007. First time ever this site has had no snow on May 1. Photo by Brooke Nelson, NRCS, USDA.

# Water Supply Outlook Reports and Federal - State - Private Cooperative Snow Surveys

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### How forecasts are made

Most of the annual streamflow in the western United States originates as snowfall that has accumulated in the mountains during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Measurements of snow water equivalent at selected manual snowcourses and automated SNOTEL sites, along with precipitation, antecedent streamflow, and indices of the El Niño / Southern Oscillation are used in computerized statistical and simulation models to prepare runoff forecasts. These forecasts are coordinated between hydrologists in the Natural Resources Conservation Service and the National Weather Service. Unless otherwise specified, all forecasts are for flows that would occur naturally without any upstream influences.

Forecasts of any kind, of course, are not perfect. Streamflow forecast uncertainty arises from three primary sources: (1) uncertain knowledge of future weather conditions, (2) uncertainty in the forecasting procedure, and (3) errors in the data. The forecast, therefore, must be interpreted not as a single value but rather as a range of values with specific probabilities of occurrence. The middle of the range is expressed by the 50% exceedance probability forecast, for which there is a 50% chance that the actual flow will be above, and a 50% chance that the actual flow will be below, this value. To describe the expected range around this 50% value, four other forecasts are provided, two smaller values (90% and 70% exceedance probability) and two larger values (30%, and 10% exceedance probability). For example, there is a 90% chance that the actual flow will be more than the 90% exceedance probability forecast. The others can be interpreted similarly.

The wider the spread among these values, the more uncertain the forecast. As the season progresses, forecasts become more accurate, primarily because a greater portion of the future weather conditions become known; this is reflected by a narrowing of the range around the 50% exceedance probability forecast. Users should take this uncertainty into consideration when making operational decisions by selecting forecasts corresponding to the level of risk they are willing to assume about the amount of water to be expected. If users anticipate receiving a lesser supply of water, or if they wish to increase their chances of having an adequate supply of water for their operations, they may want to base their decisions on the 90% or 70% exceedance probability forecasts, or something in between. On the other hand, if users are concerned about receiving too much water (for example, threat of flooding), they may want to base their decisions on the 30% or 10% exceedance probability forecasts, or something in between. Regardless of the forecast value users choose for operations, they should be prepared to deal with either more or less water. (Users should remember that even if the 90% exceedance probability forecast is used, there is still a 10% chance of receiving less than this amount.) By using the exceedance probability information, users can easily determine the chances of receiving more or less water.

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### STATE OF UTAH GENERAL OUTLOOK May 1, 2007

### **SUMMARY**

April has put an exclamation point on March. As you remember, March was the snowpack equivalent of the Titanic. The only reason that April didn't melt more snow is that there wasn't much snow left to melt. As it is melt ranged from 73% in southwest Utah to 168% of normal for the Uintah Basin. We begin with record or near record low snowpacks in March, accelerate the melt in April and now we are left with snowpacks that range between 3% over southeast Utah to 33% of average on the Bear River. Southern Utah snowpacks are much lower than northern counterparts. With the melting of the snowpack comes the runoff season that can be described, at this point, as lethargic at best. In many cases, low elevation watersheds had little to no response. Many mid elevation watersheds saw moderate rises, have peaked for the season, and are now in recession. Those watersheds with higher elevations are now (early May) in the process of peak flows, nearly a month early and much below average. Optimistically, most watersheds will not be able to sustain significant flows beyond the end of May and most likely not past mid May. Those interests that depend on direct streamflow will be the first and possibly most impacted by what is shaping up to be a long summer. Soil moisture values have peaked and in some cases have started to decline: Bear - 77%, Weber - 75%, Provo - 66%, Uintah Basin - 70%, southeast Utah -74%, Sevier - 68%, southwest Utah - 59%, and statewide - 70% of saturation. Those watersheds that did increase soil moisture in April did so only slightly and all basins are expected to dry out very quickly. In addition to the obvious impacts of reduced streamflow and dependent on future climatic conditions, Utah might expect an earlier and longer fire season, reduced forage production, agricultural and forest stress and any number of other drought related impacts. Reservoir storage continues to be in good condition although some reservoirs have already begun to decline. Early demand (April!) outpacing inflow with the portent of a long summer is, in general, a red flag. General water supply conditions range from much below to near average. Streamflow forecasts range from 1% in the Monticello area to 60% of average on Little Cottonwood Creek. Surface Water Supply Indices range from 12% on the Weber River to 67% on the west side of the Uintah Basin.

### SNOWPACK

May first snowpacks as measured by the NRCS SNOTEL are as follows: Bear - 33%, Weber - 30%, Provo - 21%, Uintahs - 32%, southeast Utah - 3%, Sevier - 26%, southwest Utah - 15% and the statewide figure is 27% of average. Snowpacks are isothermal at all locations with rapid snowmelt and are not expected to last past mid May. This is about a month earlier than normal.

### **PRECIPITATION**

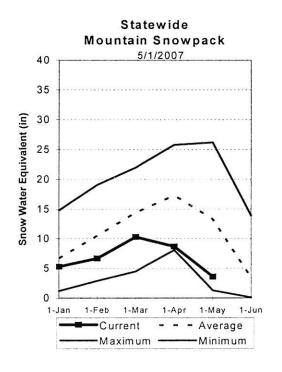
Mountain precipitation during April was much below normal in northern Utah (48%-63%) and below normal across southern Utah (75%-85%). This brings the seasonal accumulation (Oct-Apr) to 80% of average statewide and ranges from 76% on the Provo to 86% over southeastern Utah.

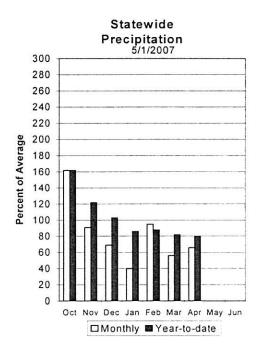
### RESERVOIRS

Storage in 41 of Utah's key irrigation reservoirs is at 75% of capacity up 1% from last month. This is also an increase of 2% from last year. Reservoirs across the State did not increase substantially from last month although most were close to full then and remain so now. There are some such as Willard Bay, Huntington North and the Enterprise reservoirs that have fill restrictions that will limit overall water supplies in those areas.

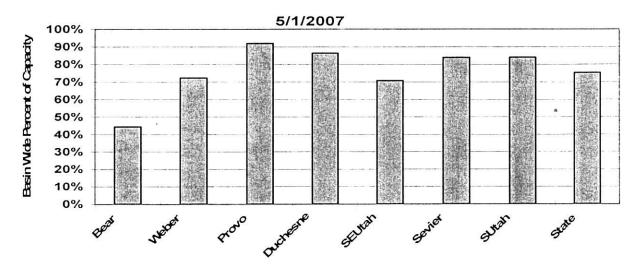
### **STREAMFLOW**

Snowmelt streamflows are expected to have a wide range from much below average to near average across the state of Utah this year. Forecast streamflows range from 1% on North Creek near Monticello to 60% of average for Little Cottonwood Creek. Most flows are forecast to be in the 30% to 50% range.





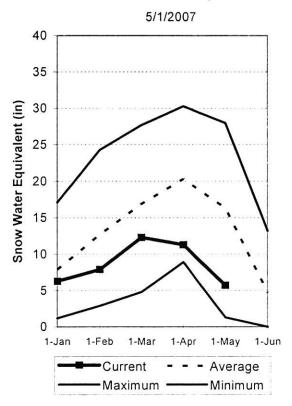
### Statewide Basin Reservoir Storage



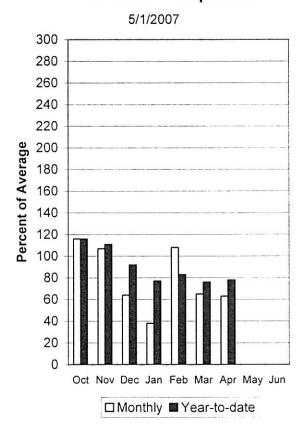
### Bear River Basin May 1, 2007

Snowpacks on the Bear River Basin are much below average at 33% of normal, about 29% of last year. Specific sites range from 0% to 81% of normal. April precipitation was much below average at 63%, which brings the seasonal accumulation (Oct-April) to 78% of average. Soil moisture levels in runoff producing areas are at 77% of saturation in the upper 2 feet of soil compared to 79% last year. Forecast streamflows are much below average (12%-58%) volumes for this spring. Reservoir storage is low at 42% of capacity, 14% more than last year. The Surface Water Supply Index is at 21% for the Bear River, or 79% of years have had more total water available. Water supply conditions are much below normal due to low streamflow and reservoir storage. Since 1977 only one year, 1992, had worse snowpack conditions.

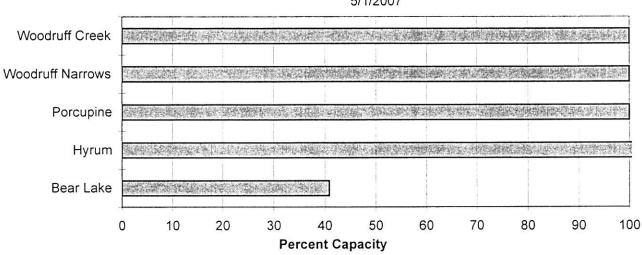
### Bear River Snowpack



### **Bear River Precipitation**



### Reservoir Storage 5/1/2007



### BEAR RIVER BASIN Streamflow Forecasts - May 1, 2007

		<<======= 	Drier	Future Co	onditions ==	Wetter	*****>>	
Forecast Point	Forecast			Chance Of Exceeding *				7884500 0000 00
	Period	90%	70%	50		30%	10%	30-Yr Avg.
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)
Bear River nr UT-WY State Line	APR-JUL	54	64	72	64	80	93	113
	MAY-JUL	44	54	62	58 j	70	83	107
Bear River ab Reservoir nr Woodruff	APR-JUL	30	36	52	38	60	73	136
	MAY-JUL	17.0	24	40	35	48	61	116
ig Creek nr Randolph	APR-JUL	0.6	1.1	1.6	32	2.2	3.5	4.9
300 - 500 000 000 000 000 000 000 000 000	MAY-JUL	0.1	0.6	1.1	25	1.7	3.0	4.3
miths Fork nr Border	APR-JUL	44	53	60	58 I	67	79	103
	MAY-JUL	35	44	51	54	58	70	95
ear River at Stewart Dam	APR-JUL	36	39	51	22	61	89	234
	MAY-JUL	6.0	9.0	22	12	32	60	186
ittle Bear River at Paradise	APR-JUL	11.1	14.1	16.8	37	20	26	46
	MAY-JUL	2.8	5.8	8.5	27	11.7	17.3	32
ogan R Abv State Dam Nr Logan	APR-JUL	30	41	50	40	60	77	126
- 1980 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1	MAY-JUL	16.0	27	36	33 [	46	63	108
lacksmith Fk Abv Up&L Dam Nr Hyrum	APR-JUL	13.1	17.4	21	44	25	31	48
<del>.</del>	MAY-JUL	6.8	11.1	14.6	37	18.6	25	40
	******					BEAR RIVER BA	2850R63222	

Reservoir Storage (100	0 AF) - End	of April		1	Watershed Snowpack A	malysis -	May 1, 200	)7
Reservoir	Usable   Capacity  	*** Usa This Year	ble Storage Last Year	***       Avg	Watershed	Number of ta Sites	This Year	
BEAR LAKE	1302.0	531.6	391.9		BEAR RIVER, UPPER (above	12	43	43
HYRUM	15.3	15.4	11.8	13.2	BEAR RIVER, LOWER (below	13	21	26
PORCUPINE	11.3	11.3	11.3	9.5	LOGAN RIVER	8	23	34
WOODRUFF NARROWS	57.3	57.3	57.3	38.5	BEAR RIVER DRAINAGE	24	27	31
WOODRUFF CREEK	4.0	4.0	4.0		RAFT RIVER	1	55	101
				ļ	BEAR RIVER BASIN	25	30	35

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

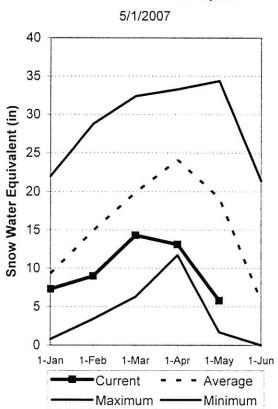
The average is computed for the 1971-2000 base period.

The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 The value is natural volume - actual volume may be affected by upstream water management.

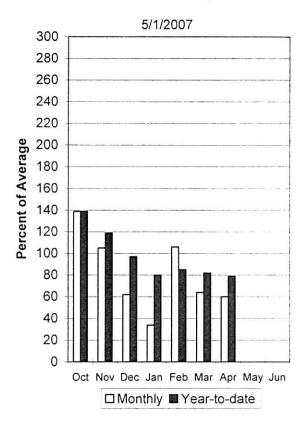
### Weber and Ogden River Basins May 1, 2007

Snowpacks on the Weber and Ogden Watersheds are much below average at 30%, about 24% of last year. Individual sites range from 0% to 56% of average. April precipitation was much below average at 60% bringing the seasonal accumulation (Oct-April) to 79% of average. Soil moisture levels in runoff producing areas are at 75% of saturation in the upper 2 feet of soil compared to 76% last year. Streamflow forecasts range from 25% to 50% of average. Reservoir storage is at 63% of capacity, 15% lower than last year. The Surface Water Supply Index is at 10% for the Weber River and at 14% for the Ogden River. Overall water supply conditions are much below normal. Only one year since 1971 had worse snowpack conditions, that was in 1977.

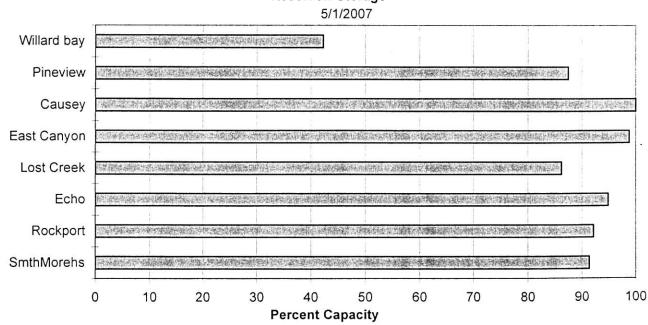
### Weber River Snowpack



### Weber River Precipitation



### Reservoir Storage



### WEBER & OGDEN WATERSHEDS in Utah Streamflow Forecasts - May 1, 2007

		<<=====	Drier	== Future Cor	nditions ===	Wetter	====>>	
Forecast Point	Forecast Period	90% (1000AF)	70% (1000AF)	= Chance Of Ex   50%   (1000AF)	{	30% (1000AF)	10%   (1000AF)	30-Yr Avg (1000AF
Smith & Morehouse Res inflow	APR-JUL	12.0	15.7	18.2	54	21	25	34
	MAY-JUL	9.3	13.0	15.5	50	18.0	22	31
Weber River nr Oakley	APR-JUL	42	56	65	53	74	88	123
	MAY-JUL	30	44	53	47	62	76	113
Rockport Resv Inflow Nr Wanship	APR-JUL	30	44	54	40	63	78	134
	MAY-JUL	22	36	46	38	55	70	120
Weber River nr Coalville	APR-JUL	31	44	53	39	64	76	137
	MAY-JUL	22	35	44	39	55	67	114
Chalk Creek at Coalville	APR-JUL	10.7	14.4	17.6	39	21	28	45
	MAY-JUL	4.0	7.7	10.9	30	14.6	21	37
cho Reservoir inflow	APR-JUL	46	64	77	43	88	107	179
	MAY-JUL	29	47	60	40	71	90	152
Lost Creek Reservoir inflow	APR-JUL	3.2	4.3	5.4	31	6.7	9.0	17.6
	MAY-JUL	1.0	2.1	3.2	25	4.5	6.8	12.9
East Canyon Reservoir inflow	APR-JUL	6.7	9.0	10.9	35	13.1	16.9	31
# # # # # # # # # # # # # # # # # # #	MAY-JUL	2.8	5.1	7.0	32	9.2	13.0	22
Weber River at Gateway	APR-JUL	112	127	138	39	149	164	355
<u>-</u>	MAY-JUL	65	80	91	33	102	117	273
F Ogden River nr Huntsville	APR-JUL	17.5	21	25	39	28	34	64
	MAY-JUL	7.3	11.2	14.4	31	18.0	24	47
ineview Reservoir inflow	APR-JUL	32	41	49	37	58	74	. 133
	MAY-JUL	11.0	20	28	32	37	53	89
heeler Creek nr Huntsville	APR-JUL	1.6	2.2	2.7	43	3.3	4.2	6.3
	MAY-JUL	0.9	1.4	1.9	45	2.5	3.4	4.3

WEBER & OGDE Reservoir Storage (	N WATERSHEDS in 1000 AF) - End			 	WEBER & OGDEN WATERSHEDS in Utah   Watershed Snowpack Analysis - May 1, 2007
Reservoir	Usable   Capacity	This Year	ble Storage Last Year	Avg	Number This Year as % of   Watershed of   Data Sites Last Yr Average
CAUSEY	7.1	7.1	5 . 6	4.0	OGDEN RIVER 4 17 22
EAST CANYON	49.5	48.9	42.6	40.5	WEBER RIVER 13 24 34
ЕСНО	73.9	70.3	52.0	52.9	WEBER & OGDEN WATERSHEDS 17 22 30
LOST CREEK	22.5	19.4	17.1	15.6	
PINEVIEW	110.1	96.3	84.2	77.7	1
ROCKPORT	60.9	56.1	34.9	38.6	
WILLARD BAY	215.0	90.8	184.3	168.0	1 1 1

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

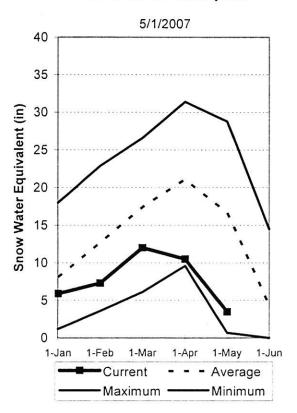
The average is computed for the 1971-2000 base period.

The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 The value is natural volume - actual volume may be affected by upstream water management.

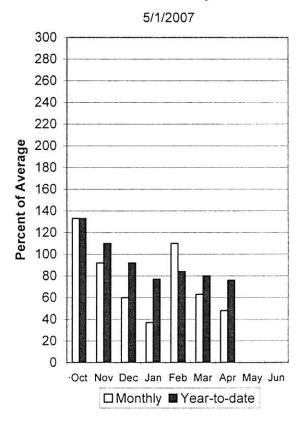
### Utah Lake, Jordan River & Tooele Valley Basins May 1, 2007

Snowpack over these regions is much below average at 21%, which is 17% of last year and down 29% from last month. This is the lowest May 1 snowpack for this region since 1992. Individual sites range from 0% to 59% of average. April precipitation was much below average at 48%, bringing the seasonal accumulation (Oct-Apr) to 76% of average. Soil moisture levels in runoff producing areas are at 66% of saturation in the upper 2 feet of soil compared to 71% last year. Reservoir storage is at 92% of capacity, 2% higher than last year. Streamflow forecasts range from 20% to 59% of average. The Surface Water Supply Index is at 42%, indicating general water supply conditions are near normal due to good reservoir carryover.

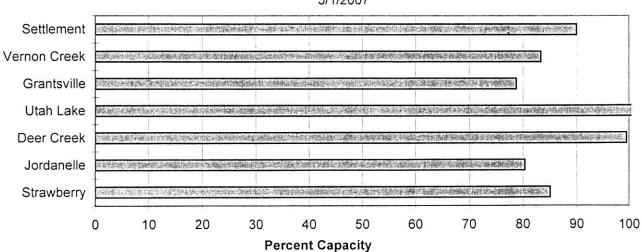
### **Provo River Snowpack**



### **Provo River Precipitation**



Reservoir Storage 5/1/2007



### UTAH LAKE, JORDAN RIVER & TOOELE VALLEY Streamflow Forecasts - May 1, 2007

					Conditions =			**********
Forecast Point		90% (1000AF)	70%	1	f Exceeding * 50% F) (% AVG.)	30%	10%   (1000AF)	30-Yr Avg. (1000AF)
Spanish Fork River nr Castilla	APR-JUL MAY-JUL	13.3 5.6	22 14.1	30   22	39	l 40 l 32	57 49	77 60
Provo River nr Woodland	APR-JUL MAY-JUL	45 26	54 35	   60   41		   67   48	78 59	103 92
Provo River nr Hailstone	APR-JUL MAY-JUL	44 25	55 36	   61   42		   70   51	82 63	109 95
Deer Creek Resv Inflow	APR-JUL MAY-JUL	43 27	54 38	   61   45	2	l 70 l 54	84 68	126 102
American Fk Abv Upper Powerplant	APR-JUL MAY-JUL	18.8 5.8	22 8.5	   24   10.7	8 90 E	   26   13.1	30 17.2	32 30
Utah Lake inflow	APR-JUL MAY-JUL	112 30	138 56	   156   74		   177   95	210 130	325 239
West Canyon Ck Nr Cedar Fort	APR-JUL MAY-JUL	0.2 0.2	0.3 0.3	I I 0.5 I 0.4		I 0.6 I 0.6	0.8	2.4 2.1
Little Cottonwood Ck nr SLC	APR-JUL MAY-JUL	18.1 16.1	22 19.5	1 24		l 27 l 25	31 29	40 37
Big Cottonwood Ck nr SLC	APR-JUL MAY-JUL	14.8 13.1	18.2 16.5	   21   19.0		   24   22	28 26	38 33
Mill Creek nr SLC	APR-JUL MAY-JUL	2.3 1.0	3.0 1.7	   3.6   2.3		I I 4.3 I 3.0	5.3 4.0	7.0 5.9
Parley's Creek nr SLC	APR-JUL MAY-JUL	1.2	2.4	3.5		I I 4.9 I 4.6	7.3 7.0	16.7 12.8
Dell Fork nr SLC	APR-JUL MAY-JUL	0.7	1.3	1.7		   2.2   1.9	4.2	6.8 5.0
Emigration Creek nr SLC	APR-JUL MAY-JUL	0.2	0.6	   0.9   0.8		   1.3   1.2	2.1	4.5 3.1
City Creek nr SLC	APR-JUL MAY-JUL	2.2 1.1	3.1	   3.8   2.7		1 1 4.7 1 3.6	6.1 5.0	8.7 7.3
Vernon Creek nr Vernon	APR-JUL MAY-JUL	0.4	0.6	0.7		I I 0.9 I 0.6	1.2	1.5
Settlement Creek Abv Resv Nr Tooele	APR-JUL MAY-JUL	0.1	0.3	   0.4   0.4		I I 0.6 I 0.5	0.9	2.1 1.8
South Willow Creek nr Grantsville	APR-JUL MAY-JUL	1.1 0.7	1.4 1.0	1.6		   1.9   1.5	2.2 1.9	3.2 2.8
UTAH LAKE, JORDAN R Reservoir Storage (1000	IVER & TOOK	LE VALLEY		     	UTAH LAKE,	JORDAN RIVER	S TOOELE VA	LLEY
	Usable	*** Usabl	le Storage	***		Numbe	r This	Year as % of
Reservoir		Year	Year 2	Avg I	tershed		tes Last	Yr Average
DEER CREEK	149.7				OVO RIVER & UT.		12	16
GRANTSVILLE	3.3	2.6	3.3	2.8   PR	OVO RIVER	4	19	28
SETTLEMENT CREEK	1.0	0.9	0.9	0.7 J	RDAN RIVER & G	REAT SALT 11	24	37

663.7 |

872.6 |

TOOELE VALLEY WATERSHEDS 5

UTAH LAKE, JORDAN RIVER & 24

9

19

8

27

940.6

905.6

0.5

848.6

946.0

0.5

1105.9

870.9

0.6

STRAWBERRY-ENLARGED

UTAH LAKE

VERNON CREEK

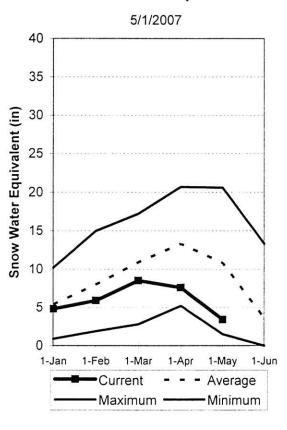
^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table. The average is computed for the 1971-2000 base period.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

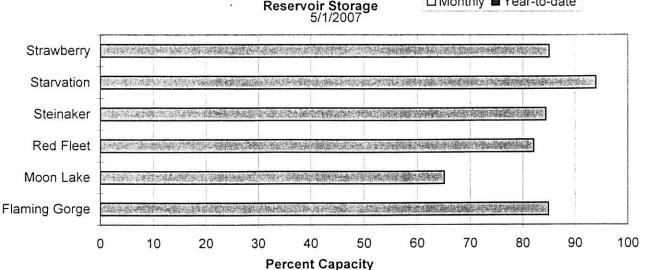
### Uintah Basin and Dagget SCD's May 1, 2007

Snowpack across the Uintas is much below average at 32%, which is just 38% of last year. This is the worst May I snowpack on the Uintas since 2002. Individual sites on the North Slope range from 0% to 84% and on the South Slope range from 0% to 75% of average. East Fork-Blacks Fork G.S. had no snow--a first for the May I survey going back to 1961. Precipitation during April was much below average at 61% (the sixth consecutive below normal month) bringing the seasonal accumulation (Oct-Apr) to 81% of average. Soil moisture values in runoff producing areas are at 70% of saturation in the upper 2 feet of soil compared to 75% last year. Reservoir storage is at 86% of capacity, 7% more than last year. Streamflow forecasts (May-July) range from 15% to 62% of average. The Surface Water Supply Index for the western area is 60% and for the eastern area it is 24% indicating normal conditions on the west side and much below normal for the eastern area. General water supply conditions range from average on the west side thanks to excellent reservoir carryover to much below average in the east.

### **Uinta Snowpack**



### **Uinta Precipitation** 5/1/2007 Percent of Average Oct Nov Dec Jan Feb Mar Apr May Jun ☐ Monthly ■ Year-to-date



### UINTAH BASIN & DAGGET SCD'S Streamflow Forecasts - May 1, 2007

		<<====	== Drier ===	=== )	Future Cor	nditions ==	We	tter =	>>	
Forecast Point	Forecast			== Cha		xceeding * =				
	Period	90%   (1000AF	70% (1000AF)	-	50% (1000AF)	{	309 (1000)		10%   1000AF)	30-Yr Avg. (1000AF)
Blacks Fork nr Robertson	APR-JUL	43	53	= ===:	60	63		58	80	95
	MAY-JUL	39	49	1	56	61		54	76	92
EF of Smiths Fork nr Robertson	APR-JUL	11.1	14.8	į	17.6	61		20	25	29
	MAY-JUL	10.8	14.5	1	17.3	62   	2	20	25	28
Flaming Gorge Reservoir Inflow (2)	APR-JUL MAY-JUL	285 215	405 335	1	500 430	42   42	60 54		785 720	1190 1035
Big Brush Ck abv Red Fleet Resv	APR-JUL	9.8	12.0	1	13.8	66 I	15.		18.9	21
	MAY-JUL	5.8	8.0	Ì	9.8	52 I	11.	.7	14.9	18.8
Ashley Creek nr Vernal	APR-JUL MAY-JUL	19.4 16.4	25 22	l l	29 26	56 I 52 I		84 81	41 38	52 50
WF Duchesne River nr Hanna (2)	APR-JUL	5.8	8.1	l I	10.0	42	12.	1	15.8	24
	MAY-JUL	3.5	5.8	ļ	7.7	36	9.	8	13.5	22
Duchesne R nr Tabiona (2)	APR-JUL MAY-JUL	26 15.6	34 23	i	40 29	38   30		17 16	57 46	105 96
Upper Stillwater Resv Inflow	APR-JUL	34	40	Į.	45	55 I		60	57	82
opper Stillwater Nesv Inilow	MAY-JUL	30	36	į	41	52		16	53	79
Rock Ck nr Mountain Home (2)	APR-JUL	38	45	i	50	56		55	64	89
	MAY-JUL	32	39	1	44	52 I	4	19	58	85
Duchesne R abv Knight Diversion (2)	APR-JUL MAY-JUL	61 46	75 60	!	86 71	46   41		98 13	116 101	188 173
Strawberry R nr Soldier Springs (2)	APR-JUL	6.8	10.5	i	13.8	23	17.	8	25	59
	MAY-JUL	3.0	6.7	l I	10.0	22	14.	0	21	46
Currant Creek Reservoir Inflow (2)	APR-JUL MAY-JUL	1.6	4.2	i I	6.7 6.7	27   31	9. 9.		15.2 15.2	25 22
Strawberry R nr Duchesne (2)	APR-JUL	12.0	18.0	1	24	20	3	1	45	121
Selection of the separate of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selecti	MAY-JUL	3.0	9.0	ļ	15.0	15	2	2	36	100
Lake Fork River Moon Lake Inflow	APR-JUL	28	34	ì	38	56		12	50	68
	MAY-JUL	27	33	1	37	57	4	11	49	65
Yellowstone River nr Altonah	APR-JUL MAY-JUL	26 22	32 28	1	36 32	58 I		11	48	62 59
				i		i				
Duchesne R at Myton (2)	APR-JUL MAY-JUL	33 14.0	47 28	I I	59 40	23   17		55	99 80	260 230
Whiterocks near Whiterocks	APR-JUL	24	30	ļ	35	63 I		10	48	56
militarocks hear militarocks	MAY-JUL	21	27	ĺ	32	60		17	45	53
Duchesne R nr Randlett (2)	APR-JUL	28	48	i	70	22		8	150	324
	MAY-JUL	8.0	28	1	50	17	7	'8	130	289
UINTAH BASIN							H BASIN 6			**********
Reservoir Storage (1000	AF) - End	of April		i		Natershed Sn	owpack An	alysis	- May 1,	
20 33 CO 38 48 30 48 50 30 50 50 50 50 50 50 50 50 50 50 50 50 50			ble Storage					lumber		ear as % of
Reservoir	Capacity	This Year	Last Year 1	Avg l		shed	Dat	of a Sites		r Average
FLAMING GORGE	3749.0	3184.0		52.0 I		GREEN RIVER			63	39
MOON LAKE	49.5	32.2	29.0	30.8	ASHLEY	CREEK		2	0	0
RED FLEET	25.7	21.1	23.0	19.9	BLACK'	s FORK RIVE	R	3	47	40
STEINAKER	33.4	28.2	33.3	25.0	SHEEP	CREEK		2	131	61
STARVATION	165.3	155.3	143.8 13	39.7 I	DUCHES	NE RIVER		12	34	34
STRAWBERRY-ENLARGED	1105.9	940.6	848.6 66	63.7	LAKE F	FORK-YELLOWS	TONE CRE	5	44	49

STRAWBERRY RIVER

UINTAH-WHITEROCKS RIVERS 2

UINTAH BASIN & DAGGET SCD 23

0

39

44

4

0

32 36

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table. The average is computed for the 1971-2000 base period.

The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 The value is natural volume - actual volume may be affected by upstream water management.

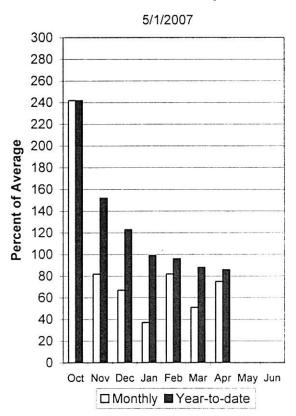
### Carbon, Emery, Wayne, Grand and San Juan Co. May 1, 2007

Snowpacks in this region are much below normal at 3% of average, about 3% of last year. Individual sites range from 0% to 52% of average. This is the worst May 1st snowpack for this region since 1977. Precipitation during April was below average at 75%, bringing the seasonal accumulation (Oct-Apr) to 86% of normal. Soil moisture estimates in runoff producing areas are at 74% of saturation in the upper 2 feet of soil compared to 77% last year and up 1% from last month. Forecast streamflows range from 1% to 68% of average with the lowest flows predicted in the Abajo Mountains. Reservoir storage is at 71% of capacity, up 16% from last year at this time. Surface Water Supply Indices for the area are: Price 20%, San Rafael area 7% and Moab 18%. General runoff and water supply conditions are much below normal.

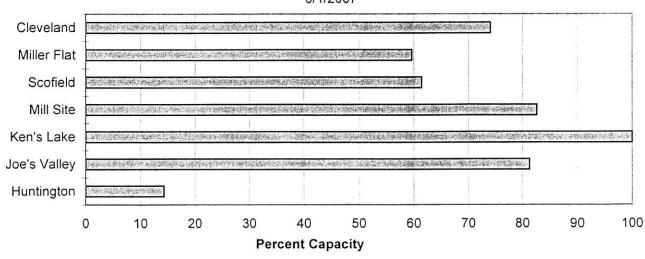
### Southeast Utah Snowpack

### 5/1/2007 40 35 Snow Water Equivalent (in) 30 25 20 15 10 5 0 1-Feb 1-Mar 1-May 1-Jan 1-Apr Current Average Maximum Minimum

### **Southeast Utah Precipitation**



### Reservoir Storage 5/1/2007



### CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co. Streamflow Forecasts - May 1, 2007

						Wetter			
Forecast Point		   <del></del>   90%   (1000AF)	70% (1000AF)	= Chance Of E   50   (1000AF)	xceeding * = %	30% (1000AF)	10%   (1000AF)	30-Yr Avg. (1000AF)	
Gooseberry Creek nr Scofield	APR-JUL MAY-JUL	2.9 2.2	3.8 3.1	4.5 3.8	38 35	5.3 4.6	6.5 5.8	11.9 10.8	
Price River near Scofield Reservoir	APR-JUL MAY-JUL	-2.5 -5.4	8.4 5.5	   15.9   13.0	35   33	23 20	34 31	45 40	
White River blw Tabbyune Creek	APR-JUL MAY-JUL	1.9	2.6 1.0	   3.2   1.6	19   12	4.0	5.4 3.8	17.3 13.6	
Green River at Green River, UT (2)	APR-JUL MAY-JUL	960 608	1220 877	   1410   1060	45   39	1590 1243	1860 1512	3170 2740	
Huntington Ck Inflow to Electric Lk	APR-JUL MAY-JUL	3.6 2.3	4.6	l 5.3 l 4.0	34   29	6.1 4.8	7.5 6.2	15.7 14.0	
Huntington Ck nr Huntington	APR-JUL MAY-JUL	5.9 2.2	8.2 4.5	   13.7   10.0	28   22	21 17.6	33 29	49 45	
Joe's Valley Resv Inflow	APR-JUL MAY-JUL	15.0 11.9	21 17.6	l l 25 l 22	43   42	30 27	38 35	58 53	
Ferron Ck (Upper Station) nr Ferron	APR-JUL MAY-JUL	11.5 7.7	14.0 10.2	   15.8   12.0	41 i 33 i	17.8 14.0	21 17.2	39 36	
Colorado River Near Cisco (2)	APR-JUL MAY-JUL	2030 1470	2700 2140	3150 2590	68 I	3600 3040	4320 3760	4650 4080	
Mill Creek at Sheley Tunnel nr Moab	APR-JUL MAY-JUL	1.5	1.8	2.0   1.6	40 I	2.2	2.6	5.0	
Seven Mile Ck nr Fish Lake	APR-JUL	2.5	3.0	]   3.5	50 I	4.0	4.8	7.0	
Muddy Creek nr Emery	MAY-JUL APR-JUL	6.2	7.8	2.5	41   46	10.5	3.8	19.9	
North Ck ab R.S. nr Monticello	MAY-JUL MAR-JUL	0.0	0.0	7.0     0.0	39       1	0.0	0.1	18.0	
South Ck ab Lloyd's Res nr Monticell		0.0	0.0	0.0	2     1   4	0.0	0.1	1.4	
Recapture Ck Bl Johnson Ck nr Blandi		0.0	0.0   0.0	0.0	3     1   2	0.1	0.1	1.0	
San Juan River near Bluff (2)	MAY-JUL APR-JUL	0.0 375	0.0     570	0.0     700	1       57	0.1 835	0.3	2.9	
, , , , , , , , , , , , , , , , , , ,	MAY-JUL	210	410	540	55	670	870	975	

R	CARBON, EMERY, WAYNE eservoir Storage (100			Co.	   	CARBON, EMERY, WAYN Watershed Snowpack			
Reservoir		Usable   Capacity	*** Usal This Year	ble Storage Last Year	***   	Watershed	Number of Data Sites		r as % of Average
HUNTINGTON NOR	TH	4.2	0.6	4.2	4.1	PRICE RIVER	3	8	12
JOE'S VALLEY		61.6	50.1	42.4	41.9	SAN RAFAEL RIVER	6	14	20
KEN'S LAKE		2.3	2.3	2.3	1.6	MUDDY CREEK	1	0	0
MILL SITE		16.7	13.8	8.8	99.7	FREMONT RIVER	5	11	3
SCOFIELD		65.8	40.4	25.8	37.4	LASAL MOUNTAINS	2	0	0
					1	BLUE MOUNTAINS	2	0	0
					l	WILLOW CREEK - WHITE RIV	VE 1	0	0
						CARBON, EMERY, WAYNE, GI	RA 20	12	11

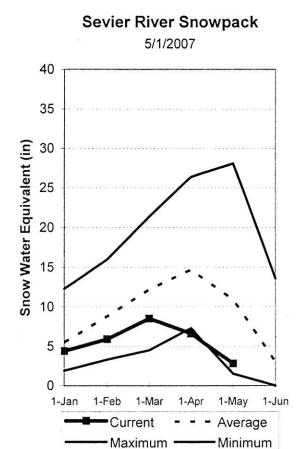
^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

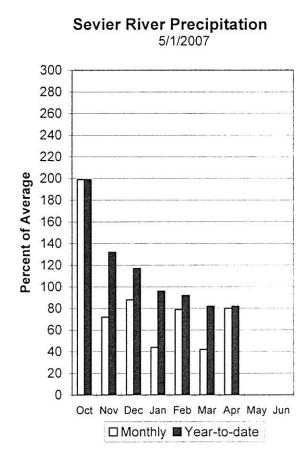
The average is computed for the 1971-2000 base period.

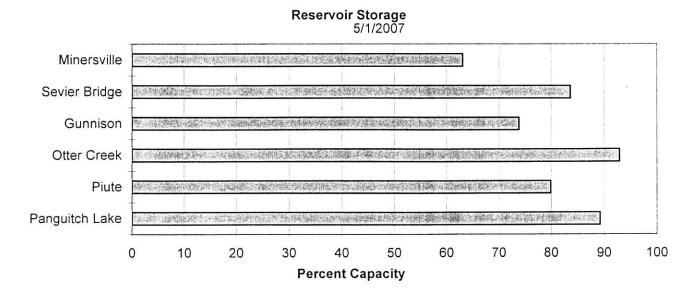
The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 The value is natural volume - actual volume may be affected by upstream water management.

### Sevier and Beaver River Basins May 1, 2007

Snowpacks on the Sevier River Basin are much below normal at 26% of average, about 34% of last year and down 19% relative to last month. Individual sites range from 0% to 75% of average with 16 of 22 sites at zero. Precipitation during April was below average at 80% of normal, bringing the seasonal accumulation (Oct-Apr) to 82% of average. Soil moisture estimates in runoff producing areas are at 68% of saturation in the upper 2 feet of soil compared to 70% last year. Streamflow forecasts range from 8% to 55% of average. Reservoir storage is at 84% of capacity, 10% less than last year. Surface Water Supply Indices are: Upper Sevier 48%, Lower Sevier 45% and Beaver 25%. Water supply conditions are near to much below average due to reservoir storage but with poor streamflow expected.







### SEVIER & BEAVER RIVER BASINS Streamflow Forecasts - May 1, 2007

23 50 50 20 20 20 20 50 50 20 20 20 20 20 20 20 20 20 20 20 20 20						nditions ===			
Forecast Point		90% (1000AF)	70% (1000AF)	1 (	50 1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Sevier River at Hatch	APR-JUL MAY-JUL	19.0 13.6	23 17.2		25 19.8	46   41	28 23	32 27	55 48
Sevier River nr Kingston	APR-JUL MAY-JUL	38 28	45 35	į	51 41	57   55	57 47	67 57	89 74
EF Sevier R nr Kingston	APR-JUL MAY-JUL	4.1 1.7	9.9 5.9	į	15.2 10.4	40 I 37 I	22 16.1	33 27	38 28
Sevier R blw Piute Dam	APR-JUL MAY-JUL	13.0 6.0	29 18.0	1	44 29	35   28	62 43	94 69	126 102
Clear Creek Abv Diversions Nr Sevi	er APR-JUL MAY-JUL	7.4 5.6	8.7 6.9		9.8 8.0	45   45	11.1 9.3	13.3 11.5	22 17.9
Salina Creek at Salina	APR-JUL MAY-JUL	1.4 1.0	4.0		6.5 4.9	33   28	9.6 7.4	15.2 11.9	19.7 17.4
Manti Ck Blw Dugway Ck Nr Manti	APR-JUL MAY-JUL	6.0 4.9	7.5 6.4	1	8.7 7.6	48   44	10.0 8.9	12.0 10.9	18.3 17.1
Sevier R nr Gunnison	APR-JUL MAY-JUL	90 54	108 77	1 1 1	122 93	44   41	136 111	159 141	280 227
Chicken Creek nr Levan	APR-JUL MAY-JUL	0.0	0.2 0.1	İ	0.5 0.3	10   8	0.9	1.8 1.2	4.5 3.4
Oak Creek nr Oak City	APR-JUL MAY-JUL	0.2 0.1	0.4		0.5	31   25	0.7	1.0	1.7 1.1
Beaver River nr Beaver	APR-JUL MAY-JUL	7.8 5.4	10.3 7.9	1	12.3 9.9	46   41	14.5 12.1	18.2 15.8	27 24
Minersville Reservoir inflow	APR-JUL MAY-JUL	1.6 0.7	2.0 1.2	1	2.4	15   11	3.4 2.6	5.4 4.6	16.6 14.5
SEVIER & BEA Reservoir Storage (10	VER RIVER BAS 00 AF) - End	INS of April		 	7	SEVIER Vatershed Sno	& BEAVER RIV	ER BASINS is - May 1,	2007
Reservoir	Usable   Capacity	*** Usabl This Year	e Storage Last Year	***   	Water	shed	Numbe of Data Si	r This	Year as % of Yr Average
GUNNISON	20.3	15.0		15.7		SEVIER RIVER		37	16
MINERSVILLE (RkyFd)	23.3	14.7	22.2	18.0	EAST I	FORK SEVIER F	RIVER 4	39	0
OTTER CREEK	52.5	48.8	50.3	46.0	SOUTH	FORK SEVIER	RIVER 5	35	26

60.5

20.8

236.0 197.4 228.3 183.6

55.5 |

164.6 |

LOWER SEVIER RIVER (inclu 11

SEVIER & BEAVER RIVER BAS 22

54

50

BEAVER RIVER

57.4

19.9

71.8

PIUTE

SEVIER BRIDGE

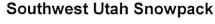
PANGUITCH LAKE

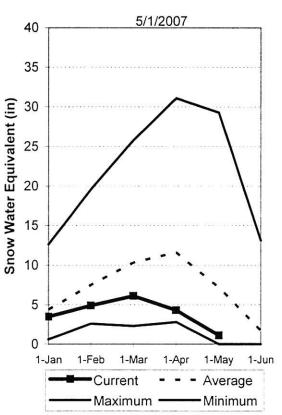
^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table. The average is computed for the 1971-2000 base period.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

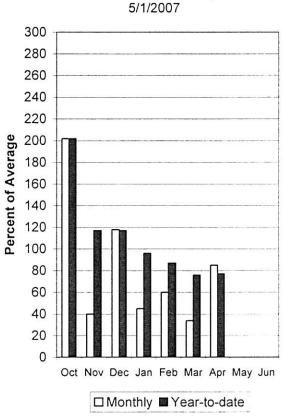
### E. Garfield, Kane, Washington, & Iron Co. May 1, 2007

Snowpacks in this region are much below normal at 15% of average, about 23% of last year and down 22% relative to last month. Individual sites range from 0% to 40% of average. Precipitation in the month of April was below average at 85%, bringing the seasonal accumulation (Oct-Apr) to 77% of average. Soil moisture estimates in runoff producing areas are at 62% of saturation in the upper 2 feet of soil compared to 60% last year. Forecast streamflows range from 11% to 35% of average. Reservoir storage is at 84% of capacity, 9% less than last year. The Surface Water Supply Index is at 21%, indicating much below normal water supply conditions.

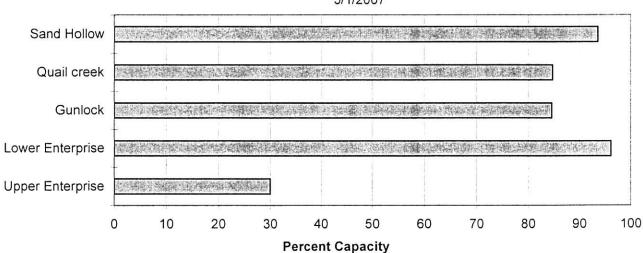




### Southwest Utah Precipitation



### Reservoir Storage 5/1/2007



### E. GARFIELD, KANE, WASHINGTON, & IRON Co. Streamflow Forecasts - May 1, 2007

Forecast Point	Forecast		Drier ===================================			===== Wetter	i	
	Period	90%	70%	50		30%	10%	30-Yr Avg
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF
Lake Powell Inflow (2)	APR-JUL	2560	3420	4000	50	4580	5440	7930
	MAY-JUL	1760	2620	3200	46	3780	4640	6940
Virgin River at Virgin	APR-JUL	18.5	19.5	22	34	25	34	64
	MAY-JUL	11.0	12.0	14.5	35	17.2	27	42
irgin River near Hurricane	APR-JUL	14.3	15.0	17.5	25	22	25	69
	MAY-JUL	9.3	10.0	12.5	27	17.0	19.7	46
Santa Clara River nr Pine Valley	APR-JUL	0.6	0.7	0.8	15	1.1	1.6	5.5
	MAY-JUL	0.3	0.4	0.5	11	0.7	1.3	4.5
oal Creek nr Cedar City	APR-JUL	5.5	7.0	8.2	43	9.5	11.7	19.3
	MAY-JUL	3.0	4.5	5.7	36	7.0	9.2	15.9
			! ====================================					
E. GARFIELD, KANE, Reservoir Storage (100						KANE, WASHIN owpack Analys		
deservoir	Usable	*** Usabl	e Storage ***			Numbe	r This	ear as % o

Reservoir Storage (10	Watershed Snowpack Analysis - May 1, 2007							
Reservoir	Usable Capacity	*** Us	able Storaç Last Year	ge ***	Watershed	Number of Data Sites	This Yea	ras % of
GUNLOCK	10.4	8.8	10.4	4.3	VIRGIN RIVER	5	22	18
LAKE POWELL	24322.0	11767.0	10993.0		PAROWAN	2	35	29
QUAIL CREEK	40.0	33.9	37.8	31.6	ENTERPRISE TO NEW HARM	MONY 2	0	0
UPPER ENTERPRISE	10.0	3.0	10.0		COAL CREEK	2	35	30
LOWER ENTERPRISE	2.6	2.5	2.4	115.5	ESCALANTE RIVER	2	18	7
				1	E. GARFIELD, KANE, WAS	e nin	21	15

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 The value is natural volume - actual volume may be affected by upstream water management.

### Watershed Soil Moisture Charts for Utah Water Supply

### **Bear River Soil Moisture**

# 2006 2005 — 2007 100% 80% 40%

Jordan/Provo River Soil

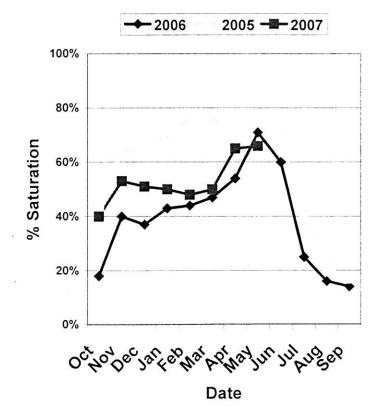
Moisture

Octobectsites war bows in intriges

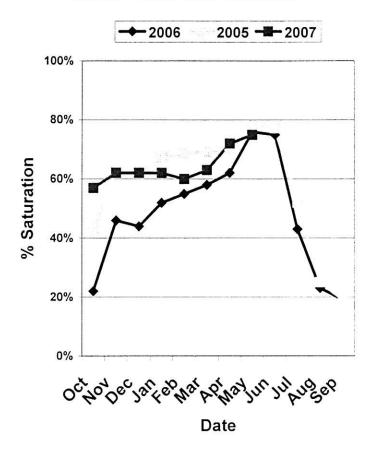
Date

20%

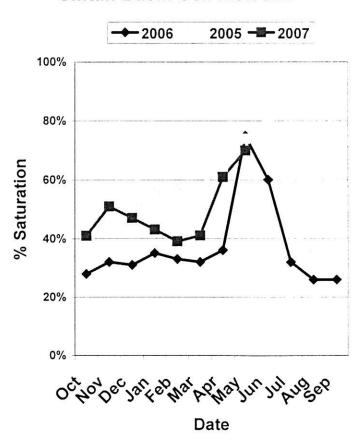
0%



### Weber River Soil Moisture

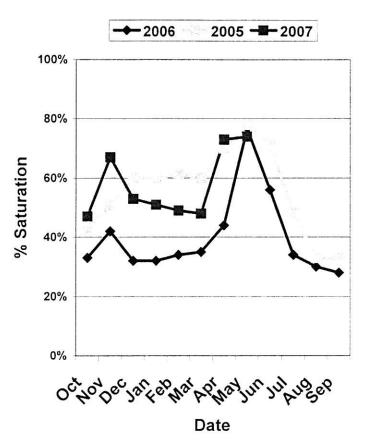


### **Uintah Basin Soil Moisture**

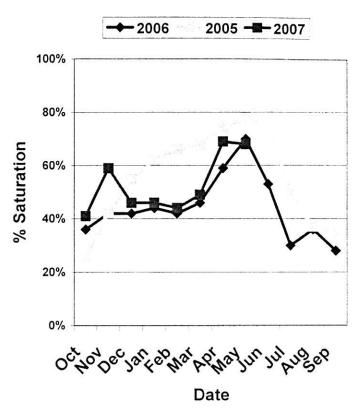


### Watershed Soil Moisture Charts for Utah Water Supply

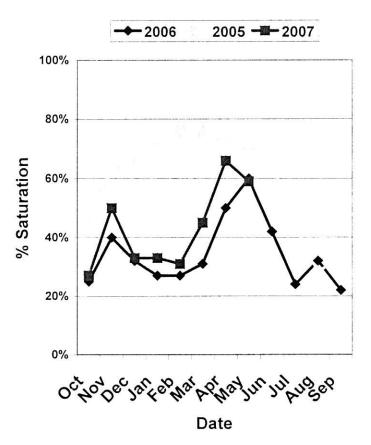
### South East Utah Soil Moisture



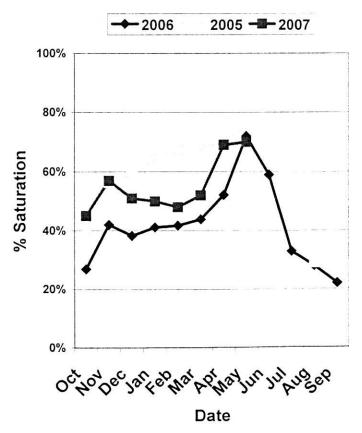
# Sevier/Beaver River Soil Moisture



### Southwest Utah Soil Moisture



### Statewide Soil Moisture



UTAH SURFACE Snow Surveys Basin or Region 1-May-07	WATER NRCS SWSI/%	SUPPLY USDA Percentile	INDEX  Years with  Similar SWSI
Bear River	-2.43	21%	95,02,06,90
Ogden River	-3.00	14%	88,87,81,90
Weber River	-3.35	10%	92,03,04,90
Provo	-0.67	42%	88, 58,67,78
West Uintah Basin	0.83	60%	87,95,96,06
East Uintah Basin	-2.16	24%	94,03,81,91
Price River	-2.53	20%	89,91,63,03
San Rafael	-3.59	7%	94,02,03,04
Moab	-2.68	18%	90,89,03,01
Upper Sevier River	-0.16	48%	74,78,94,75
Lower Sevier River	-0.43	45%	68,01,89,71
Beaver River	-2.08	25%	68,01,89,71
Virgin River	-2.43	21%	03,02,04,91
Snow Surveys 245 N Jimmy Doolittle Rd Salt Lake City, UT			SWSI Scale: -4 to 4 Percentile: 0 - 100%

(801) 524-5213

### What is a Surface Water Supply Index?

The Surface Water Supply Index (SWSI) is a predictive indicator of total surface water availability within a watershed for the spring and summer water use seasons. The index is calculated by combining pre-runoff reservoir storage (carryover) with forecasts of spring and summer streamflow which are based on current snowpack and other hydrologic variables. SWSI values are scaled from +4.1 (abundant supply) to -4.1 (extremely dry) with a value of zero (0) indicating median water supply as compared to historical analysis. SWSI's are calculated in this fashion to be consistent with other hydroclimatic indicators such as the Palmer Drought Index and the Precipitation index.

Utah Snow Surveys has also chosen to display the SWSI as a PERCENT CHANCE OF NON-EXCEEDANCE. While this is a very cumbersome name, it has the simplest application. It can be best thought of as a simple scale of 1 to 99 with 1 being the drought of record (driest possible conditions) and 99 being the flood of record (wettest possible conditions) and a value of 50 representing average conditions. This rating scale is a percentile rating as well, for example a SWSI of 75% means that this years water supply is greater than 75% of all historical events and that only 25% of the time has it been exceeded. Conversely a SWSI of 10% means that 90% of historical events have been greater than this one and that only 10% have had less total water supply. This scale is far more intuitive for most people and is totally comparable between basins: a SWSI of 50% means the same relative ranking on watershed A as it does on watershed B, which may not be strictly true of the +4 to -4 scale.

For more information on the SWSI go to: <a href="www.ut.nrcs.usda.gov/snow/">www.ut.nrcs.usda.gov/snow/</a> on the water supply page. The entire period of historical record for reservoir storage and streamflow is available.

### SNOW COURSE DATA

MAY 2007

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
AGUA CANYON SNOTEL ALTA CENTRAL BEAVER DAMS SNOTEL	8900	5/01	0	. 0	. 0	1.8
ALTA CENTRAL	8800	4/26	48	20.9	53.8	36.5
BEAVER DAMS SNOTEL	8000	5/01	0	. 0	1.9	4.7
BEAVER DIVIDE SNOTEL BEN LOMOND PK SNOTEL		5/01	16	. 0 7 . 7	. 6 49 . 3	37.1
BEN LOMOND TR SNOTEL	6000	5/01	0	. 0	3.9	6.8
BEVAN'S CABIN	6450	4/27	0	.0 0.0 14.4	1.9 19.8	5.0
BIG FLAT SNOTEL		5/01	46	14.4		
BIRCH CROSSING BLACK FLAT-U.M. CK S		4/30 5/01 4/26 4/26 5/01 4/30 5/01	0	0.0	0.6 1.9	1.4 7.1
	9340	4/26	0	0.0	5.6	8.6
BLACK'S FORK JUNCTN		4/26	ō	0.0	4.9	6.8
BOX CREEK SNOTEL	9800	5/01	0	. 0	6.5	10.3
BRIAN HEAD BRIGHTON SNOTEL	10000 8750	4/30	18	8.3	17.6 31.2	20.8
BRIGHTON SNOTEL	8750	5/01	15	6.5	31.2	25.0
BRIGHTON CABIN BROWN DUCK SNOTEL	8700 10600	5/01	43	12.9 15.0	22.6	23.6 20.1
BRYCE CANYON	8000	5/01	0	0	0 0	220
BUCK FLAT SNOTEL		5/01 4/26 4/30 5/01 4/26 5/01	0	.0 9.7	21.4 17.8	15.6
BUCK PASTURE	9700	4/26	27	9.7	17.8	16.7
BUCKBOARD FLAT BUG LAKE SNOTEL	9000	4/30	0	0.0	0.9 22.7	7.0
BUG LAKE SNOTEL BURT'S-MILLER RANCH	7950	5/01	22	7.5 0.0	22.7	18.0
CAMP JACKSON SNOTEL		5/01	0	0.0	0.0 .0 15.9	6.4
CASCADE MOUNTAIN SNO		5/01	Ö	. 0	15.9	_
CASTLE VALLEY SNOTEL		5/01	0	0.0 .0 .0 .0	2.9 27.9	7.5
CHALK CK #1 SNOTEL		5/01	32	11.7	27.9	25.3
CHALK CK #2 SNOTEL	8200	5/01	8	3.4	11.3	12.0
CHALK CREEK #3 CHEPETA SNOTEL	7500	4/26	10	0.0	12.4	1.8 12.1
CLAYTON SPRINGS SNTL		5/01 5/01	18	7.7 .0	2.8	-
CLEAR CK RIDG #1 SNT		5/01 5/01 4/26 5/01 5/01	0	. 0	12.4 2.8 19.0	15.7
CLEAR CK RIDG #2 SNT	8000	5/01	0	. 0 0 . 0	5.6 0.0	7.9
	8200	4/26	0	0.0	0.0	
CURRANT CREEK SNOTEL		5/01	0	. 0 . 0	.0	2.6
DANIELS-STRAWBERRY S DILL'S CAMP SNOTEL		5/01	0	.0	10.3 11.2	9.5 9.4
DONKEY RESERVOIR SNO		5/01	0	.0 1.0	0	
DRY BREAD POND SNTL		5/01	0	. 0	.0 15.4	4.2 18.3
DRY FORK SNOTEL		5/01	0	. 0	6.9 .0	7.7
EAST WILLOW CREEK SN		5/01	0	. 0	.0 50.5	3.0
FARMINGTON U. SNOTEL FARMINGTON L. SNOTEL		5/01	44	17.9	14.8	31.8
FARMSWORTH LK SNOTEL		5/01	45	15.8	14.0	
FISH LAKE	8700	5/01 4/27	0	0.0	1.3	5.0
FIVE POINTS LAKE SNO	10920	5/01	23	8.1	23.0	17.5
G.B.R.C. HEADQUARTER		4/26	5	1.9	15.8	14.2
G.B.R.C. MEADOWS		4/26	39	15.4	32.4	25.8
GARDEN CITY SUMMIT GARDNER PEAK SNOTEL	7600 8350	4/26 5/01	21 0	6.7	16.6 1.6	14.7
GEORGE CREEK	8840	3,01	•		-	-
GOOSEBERRY R.S.	8400	4/27	2	0.9	4.2	8.3
GOOSEBERRY R.S. SNTL		5/01	0	. 0	. 0	2.7
GUTZ PEAK SNOTEL	6820	5/01	0	. 0	.0	-
HARDSCRABBLE SNOTEL HARRIS FLAT SNOTEL	7250 7700	5/01 5/01	0	. 0	13.8 .0	6.9 1.5
HAYDEN FORK SNOTEL	9100	5/01	o	. 0	14.9	13.0
HENRY'S FORK	10000	4/26	25	8.9	10.8	13.6
HEWINTA SNOTEL	9500	5/01	0	. 0	2.4	9.3
HICKERSON PARK SNTL	9100	5/01	0	. 0	.0	5.7
HIDDEN SPRINGS HOBBLE CREEK SUMMIT	5500 7420	4/27 4/26	0	0.0	0.0 12.4	6.3
HOLE-IN-ROCK SNOTEL	9150	5/01	0	. 0	.5	4.7
HORSE RIDGE SNOTEL	8260	5/01	ō	. 0	20.6	17.9
HUNTINGTON-HORSESHOE	9800	4/26	31	12.9	33.2	24.6
INDIAN CANYON SNOTEL		5/01	0	. 0	3.3	7.9
JOHNSON VALLEY	8850	4/27	0 32	0.0	3.1 9.0	3.8
JONES CORRAL G.S.	9720	4/27	32	9.4	ᢖ.∪	<b>5</b>

		DATE	DEPTH	WATER CONTENT	YEAR	
KILFOIL CREEK	7300	4/26			14.5	
KILLYON CANYON	6300		o	0.0	0.0	-
KIMBERLY MINE SNOTEL	9300	5/01	5	2.4	6.7	12.5
KIMBERLY MINE SNOTEL KING'S CABIN SNOTEL KLONDIKE NARROWS	8730	5/01	0	. 0	. 4	7.6 13.3
KLONDIKE NARROWS	7400	4/26 5/01 5/01	0	0.0	22.6	13.3
KOLOB SNOTEL	9250	5/01	0	0	14.4	
LAKEFORK #1 SNOTEL		5/01	6	1.7	10.4	
LAKEFORK BASIN SNTL	10900	5/01 4/26	42	11.8		23.8
LAKEFORK MOUNTAIN #3 LAMBS CANYON	8400	4/26	0	0.0	0.0	1.8
LASAL MOUNTAIN LOWER	9900	4/27 4/30 5/01 5/01 5/01	0	0.2	15.2 0.0	8.7 4.2
LASAL MOUNTAIN SNTL	9850	5/01	0	.0		8.7
LIGHTNING RIDGE SNTL	8220	5/01	0	. 0	17.5	-
LILY LAKE SNOTEL	9050	5/01	1	. 8	6.4	11.1
LITTLE BEAR LOWER	6000	4/26	ō	.0 .8 0.0 .0	0.0	1 7
LITTLE BEAR SNOTEL	6550	5/01	0	. 0	. 0	3.4
LITTLE GRASSY SNOTEL LONG FLAT SNOTEL LONG VALLEY JCT. SNT LOOKOUT PEAK SNOTEL LOST CREEK RESERVOIR	6100	5/01	0	.0 .0 .0 8.5	. 0	
LONG FLAT SNOTEL	8000	5/01	0	. 0	. 0	
LONG VALLEY JCT. SNT	7500	5/01	0	. 0	.0 .0 40.7	. 0
LOOKOUT PEAK SNOTEL	8200	5/01	24	8.5	40.7	20.4
LOST CREEK RESERVOIR	6130	4/26	0	0.0	0.0	. 0
LOUIS MEADOW SNOTEL	6700	5/01	0	. 0	13.4	( <del></del> )
MAMMOTH-COTTONWD SNT	8800	5/01	0	. 0	17.6	16.0
MERCHANT VALLEY SNTL	8750	50 Z. 1 . 2 . 7 . 7 . 7 . 7 . 7 . 7 . 7 . 7 . 7	0	. 0	7.1	8.1
MIDDLE CANYON	1000	4/27	0	0.0	6.1	7.8 23.2
MIDWAY VALLEY SNOTEL		5/01	21	9.0	23.0	
MILL CREEK MILL-D NORTH SNOTEL	6950	4/27	29	10.1	26.9	18.6
	8960	5/01	0		31.3	21.7
MILL-D SOUTH FORK	7400	4/27 5/01	0	0.0	22.2	12.4
MINING FORK SNOTEL	8000	5/01	35	.0 12.6	20.2 34.1	18.3 28.3
MONTE CRISTO SNOTEL	0500	5/01		.0	7.3	
MOSBY MTN. SNOTEL MT.BALDY R.S.	9500	5/01 4/26	37	13.7	33.0	24.6
MUD CREEK #2	9600	1/26	6	2.0	20.0	8 4
OAK CREEK	7760	4/27	13	4.4	10.5	8.4 8.4
PANGUITCH LAKE R.S.		4/26	0	0.0	.0	
PARLEY'S CANYON SNTL					9.9	9.3
PARRISH CREEK SNOTEL		5/01 5/01 5/01 5/01	0 17	5.9	34.0	-
PAYSON R.S. SNOTEL	8050	5/01	0	. 0	8.3	13.3
PICKLE KEG SNOTEL	9600	5/01	0	. 0	17.3	14.1
PINE CREEK SNOTEL RED PINE RIDGE SNTL	8800	5/01	9	3.8 .0 2.0	13.2	21.2
RED PINE RIDGE SNTL	9200	5/01	0	. 0	19.1	13.0
REDDEN MINE LOWER	8500	4/26 4/27 5/01	5	2.0	17.2	15.6
REES'S FLAT	7300	4/27	0	0.0	6.3	7.3
ROCK CREEK SNOTEL		5/01 5/01 5/01	0	. 0	. 0	1.4
ROCKY BN-SETTLEMT SN		5/01	8		24.3	
SEELEY CREEK SNOTEL		5/01	8	2.9	16.7	
SMITH MOREHOUSE SNTL	7600	5/01	0	. 0	5.7	7.5
SNOWBIRD SNOTEL SPIRIT LAKE	9700 10300	5/01 4/26	51 32	24.5 12.4	68.9 9.5	41.3 14.7
SQUAW SPRINGS	9300	4/27	0	0.0	2.7	3.7
STEEL CREEK PARK SNO		5/01	35	13.6	18.4	18.6
STILLWATER CAMP	8550	4/26	0	0.0	2.4	6.8
STRAWBERRY DIVIDE SN		5/01	0	. 0	14.5	11.3
SUSC RANCH	8200	4/26	0	0.0	. 0	2.2
TALL POLES	8800	4/30	3	1.1	8.1	10.9
TEMPLE FORK SNOTEL	7410	5/01	0	. 0	11.6	-
THAYNES CANYON SNTL	9200	5/01	27	10.3	31.9	22.5
THISTLE FLAT	8500	4/26	12	4.5	19.3	-
TIMBERLINE	9100		0	0.0	1.7	-
TIMPANOGOS DIVIDE SN		5/01	0	. 0	20.8	17.6
TONY GROVE LK SNOTEL	8400	5/01	37	15.2	51.8	34.2
TONY GROVE R.S.	6250	4/26	0	0.0	3.0	3.2
TRIAL LAKE	9960	4/26	40	15.5	32.9	25.2
TRIAL LAKE SNOTEL	9960	5/01	21	11.2	33.2	26.5
TROUT CREEK SNOTEL UPPER JOES VALLEY	9400 8900	5/01 4/26	0	0.0	.7 9.8	7.8 5.0
VERNON CREEK SNOTEL	7500	5/01	0	.0	.6	4.5
VIPONT	7670	3,01		. 0	-	-
WEBSTER FLAT SNOTEL	9200	5/01	0	. 0	2.4	6.8
WHITE RIVER #1 SNTL	8550	5/01	ō	. 0	4.8	7.7
WHITE RIVER #3	7400	4/26	0	0.0	0.0	. 5
WIDTSOE #3 SNOTEL	9500	5/01	0	. 0	2.9	9.5
WRIGLEY CREEK	9000	4/26	0	0.0	9.6	7.3
YANKEE RESERVOIR	8700	4/30	0	0.0	2.8	6.0



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### Utah Water Supply Outlook Report

Natural Resources Conservation Service Salt Lake City, UT

